



ADVANCED
INTERCONNECTIONS®

<< View our Product Catalog by **clicking** on the bookmarks on the left side of the window To **SEARCH** our catalog in Acrobat®, in the top menu options, select **EDIT>SEARCH**. You will see a popup window appear.



Click on a product group below for more info >>

BGA Socketing Systems

Peel-A-Way® Carriers

PGA Sockets

PGA Adapters

DIP Sockets

DIP Adapters

SIP Sockets

SIP Adapters

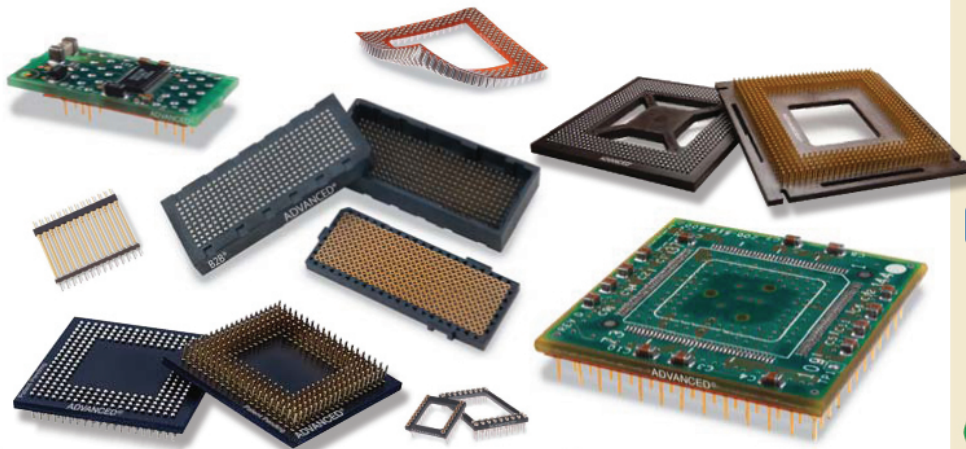
Board to Board Connectors

Adapters

Terminals

BGA Footprints*

Reference



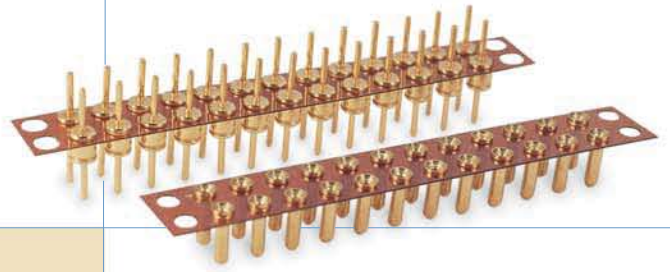
Infratron GmbH
Tel.: 089/158 126-0
Web: www.infratron.de
E-Mail: info@infratron.de



*In order to keep the Catalog PDF to a manageable download size the BGA Footprints have been removed but can be downloaded as a separate file by clicking on the name to the right in red.

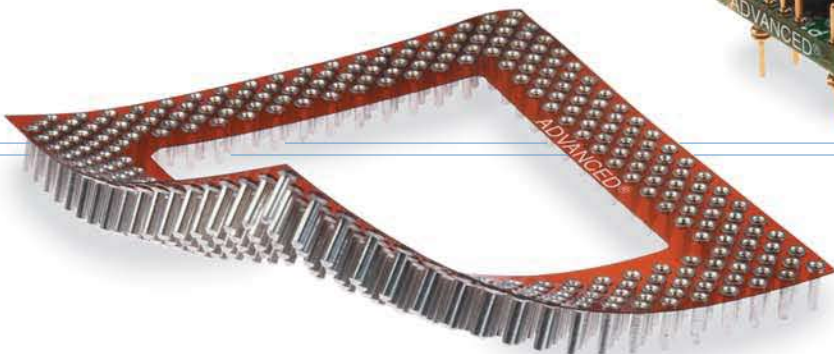
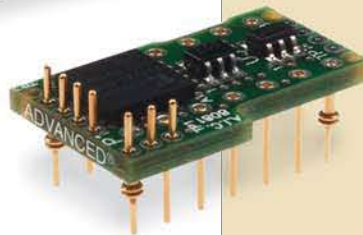
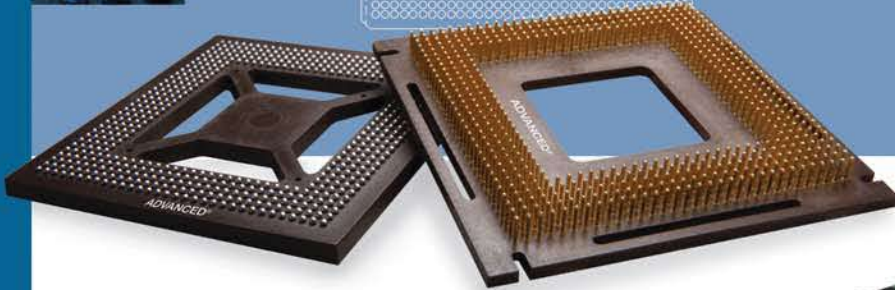
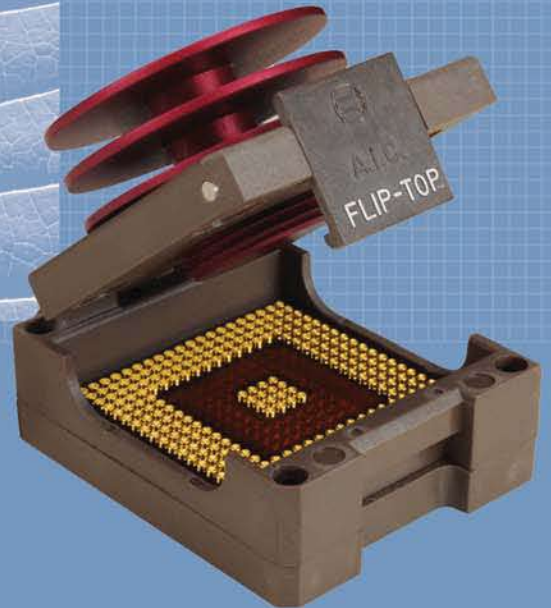
Catalog 16A

IC Sockets, Adapters, and Board to Board Connectors



0.076[1.93]
1.752[44.50] SQ
1.600[40.64] SQ
32 EQ. SP. @ 0.050[1.27]

INSULATOR
P/N: 5897-560R



ADVANCED
INTERCONNECTIONS.

The Advanced® Difference



Advanced Interconnections is a leading designer and manufacturer of innovative interconnect solutions for electronic applications worldwide. Founded in 1982, Advanced specializes in IC sockets, adapters and PC board connectors with technologically advanced features and benefits.

Our products feature the highest quality screw-machined terminals with multi-finger contacts. Standard and custom designs are available for thru-hole and surface mount applications. A variety of insulator and plating materials are available to meet RoHS and other worldwide directives for environmentally-friendly manufacturing.

Patented BGA Socketing System for 0.50/0.65mm Pitch Devices

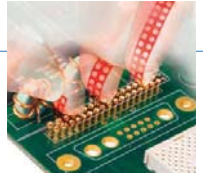
Our new BGA Socket Adapter System is a breakthrough in fine pitch socket technology. The patented design alternates male and female pins in an interstitial pattern – offering the reliability of screw-machined terminals with multi-finger contacts in a compact SMT socket.



At only 2.00mm larger than the device package, this compact design is perfect for development and validation of BGA and LGA devices, production level socketing, and SMT board to board connector applications. See pages 4-5 for complete details.

Peel-A-Way® Removable Terminal Carriers

Our patented Peel-A-Way® Removable Terminal Carriers eliminate the need for hand loading terminals and offer a super low profile solution for socketing a wide variety of devices. The polyimide film carrier can be easily removed after processing or left in place for added stability.



Screw-machined Terminals

Precision machined brass terminals (pins) with multi-finger beryllium copper contacts are the hallmark of Advanced quality. We offer hundreds of high reliability standard and custom terminals for applications including ultra-low profile, surface mount, and intrusive reflow (solder preform).



The Solder Ball Advantage

Our exclusive solder ball terminals, available in standard Tin/Lead or new Tin/Silver/Copper, provide process yields equivalent to direct attach. From BGA Socketing Systems to our new B2B® High Density SMT Connectors, Advanced specializes in surface mount applications.



Solder Preform Terminals

For intrusive reflow applications or mixed technology applications (both thru-hole and SMT devices on same PC board), our solder preform terminals are the perfect solution. Available in either Tin/Lead or new Tin/Silver/Copper, the preforms eliminate the need for solder paste and screening operations and ensure reliable solder joints with controlled solder volumes.



RoHS Compliant Products

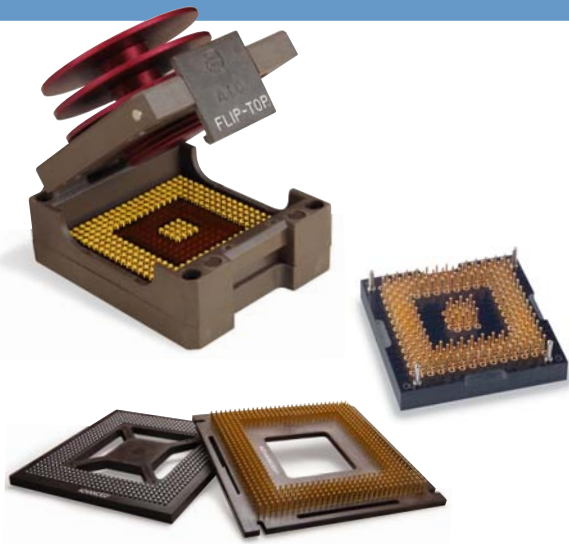
All of our standard and custom IC Sockets, Adapters and Board to Board Connectors are now available for RoHS Compliant applications, meeting requirements of the RoHS Directive for both material content and processing compatibility.



Custom Solutions

Our product application engineers are ready to assist with custom designs to handle everything from adapters for device package transitions to application-specific connectors.

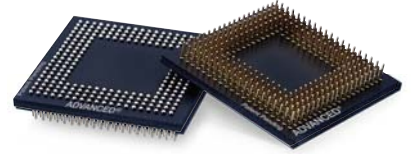




BGA Socketing Systems

Our Ball Grid Array Socket Adapter Systems and Flip-Top™ BGA Socket offer a reliable method for socketing BGA, LGA, and CSP devices in validation, test and production applications.

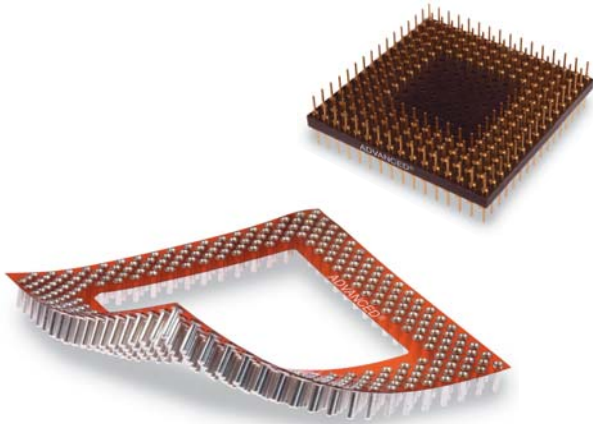
- Compact designs match IC device footprint.
- Patented solder ball terminals offer process yields equivalent to direct device attach.
- Available in tape and reel packaging for automated assembly.



IC Sockets and Adapters

Advanced offers a wide variety of IC Sockets and Adapters for virtually any package configuration including PGA, DIP, and SIP, as well as application-specific designs such as Image Sensor Sockets.

- Insulator options include FR-4, molded, and our own patented Peel-A-Way® Removable Terminal Carriers.
- Thousands of standard designs are available with Quick-Turn delivery.
- Peel-A-Way® Carriers can be easily customized with multiple terminal types and unique footprints to replace hand loading operations or to provide a quick method for socketing heat-sensitive devices.



Board to Board Connectors

Proven reliability and design flexibility provide effective results for even the most demanding board to board and mezzanine board applications.

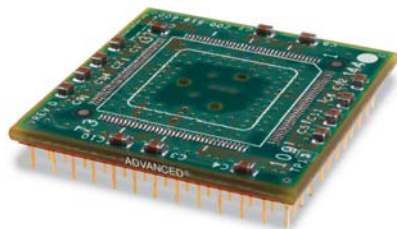
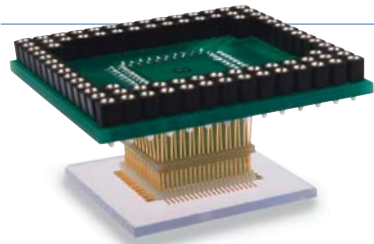
- Through-hole and surface mount designs available.
- High quality screw-machined terminals offer reliable electrical/mechanical interconnect.
- Unique solder preforms allow multi-tier Z-axis expansion.



Advanced® Adapters

Advanced® Adapters are designed to your specifications for IC package conversion, test, emulation and development applications.

- Standard designs include SOIC to DIP and PLCC to PGA adapters.
- Full line of IC Package Conversion and Test Emulation Adapters.
- Custom designs can include device enhancements or corrections by adding passive components.





Please visit our web site at www.advanced.com for the latest product updates and access to test data, electrical performance, technical specifications, CAD drawings and more. In addition to products presented in this catalog and on our web site, we offer a wide variety of custom interconnect solutions. Please contact our experienced application engineers, manufacturer's representatives, and worldwide network of authorized distributors for standard and custom interconnect solutions to meet your application requirements.



Advanced proudly manufactures in the USA from our 35,000 sq. ft. corporate headquarters in West Warwick, Rhode Island and our own screw-machine facility located nearby. Quality, in both manufacturing and customer service, is our guiding principle, as evidenced by our ISO 9001 certification.

Build-A-Part Number

Build a part number online using our eCatalog at www.advanced.com. Easy-to-use pull-down menus offer selections for terminal type, footprint, pitch, insulator material, plating, etc. Once the part number is built, enhanced options such as downloading a CAD drawing, searching distributor stock, requesting a quote, or printing a spec sheet are available.

In addition to this full-line catalog, our web site (www.advanced.com) is a great tool for selecting the exact socket, adapter, or connector part number for your application. Complete product information is available for download including:

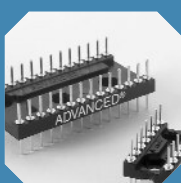
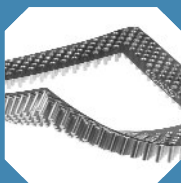
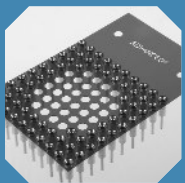
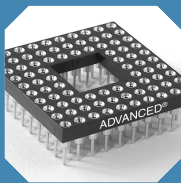
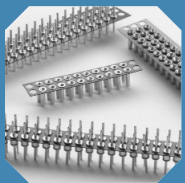
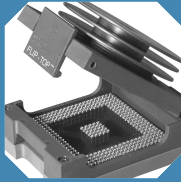
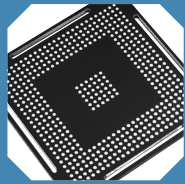
- CAD drawings in PDF format
- Electrical performance including signal integrity data and models
- RoHS Compliance test reports
- Application notes
- Technical articles
- Distributor inventory
- Build-A-Part product configurator
- Searchable BGA Footprints database
- Product updates
- RFQ and Sample order forms
- Global sales directory of representatives and distributors

Our e-Catalog makes it easy to build the exact part number needed to match your device footprint and application. Also available for our wide variety of board to board connectors. Once your part number is built, select from a variety of useful features including Request for Quote, Sample Order, Spec Sheet, and CAD Drawing.

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BGA Socketing Systems

Designed for use with Ball Grid Array (BGA), Land Grid Array (LGA), and Chip Scale Package (CSP) devices in development, test and production applications. Over 1,000 footprints available online in our searchable BGA Socket Finder™ database at www.bgasockets.com.

- Fine Pitch BGA Socket Adapter System (0.50mm, 0.65mm) 4
- Ball Grid Array (BGA) Adapters (0.80mm, 1.00mm, 1.27mm) 6
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Peel-A-Way® Carriers

Peel-A-Way® Removable Terminal Carriers offer a quick and cost-effective solution for loading socket terminals onto a PC board. Standard and custom designs offer a high temperature, low-profile solution that can be used with multiple terminal styles. The polyimide carrier can be removed after board processing for complete solder joint visibility or left in place for added stability.

- Peel-A-Way® Removable Terminal Carriers 18

PGA Sockets & Adapters

High quality sockets and adapters for .100/(2.54mm) pitch Pin Grid Array (PGA) devices featuring industry's most reliable screw-machined terminals with multiple finger contacts. Hundreds of standard and interstitial footprints available in new high temperature molded LCP (liquid crystal polymer), FR-4, and our patented Peel-A-Way® insulators. Select your footprint online in our Build-A-Part feature at www.advanced.com/pgastart.html.

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- Low Insertion Force PGA Sockets - Staggered (Interstitial) Grid 22
- Design Your Own PGA Socket 24
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DIP Sockets & Adapters

High quality sockets and adapters for .100/(2.54mm) pitch Dual Inline Packages (DIP) featuring industry's most reliable screw-machined terminals with multi-finger contacts. Available in new high temperature molded LCP (liquid crystal polymer) and our patented Peel-A-Way® insulators.

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- Molded DIP Adapters 32
- Decoupling Capacitor DIPs with Murphy Circuits® 34
- Closed Frame LED Sockets 35



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SIP Sockets & Adapters

High quality sockets and adapters for Single Inline Packages (SIP) and Board to Board applications on .100/(2.54mm) pitch featuring industry's most reliable screw-machined terminals with multi-finger contacts. Available in new high temperature molded LCP (liquid crystal polymer) and our patented Peel-A-Way® insulators.

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SIP Adapters - Molded and Peel-A-Way® Insulators	38

Board to Board Connectors

From thru-hole to high density SMT designs, Advanced offers a wide variety of solutions for board stacking applications. High quality screw-machined terminals offer long-term reliability for rigorous mating/unmating cycles.

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Adapters

Advanced® Adapters provide high quality, proven solutions for device package conversion as well as device enhancements or corrections by adding passive components. Standard and custom designs are available for development, test and production applications.

SOIC Adapters	58
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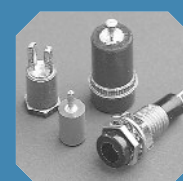
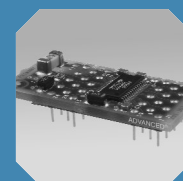
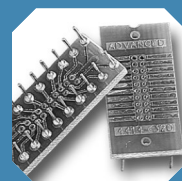
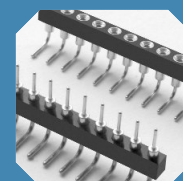
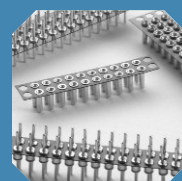
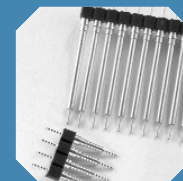
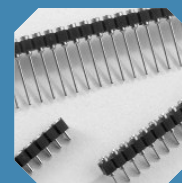
Terminals

Advanced designs and manufactures hundreds of RoHS Compliant screw-machined terminals for our high quality sockets, adapters, and connectors. Advanced also offers a complete line of EMC® insulated and non-insulated terminals and test jacks for RoHS Exempt applications.

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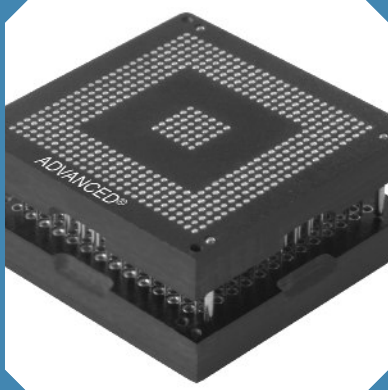
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BGA Socket Adapter System



Features:

- Advanced's field-proven screw-machined terminals with multi-finger contacts, arranged in an interstitial male/female pin pattern are gold plated for gold/gold interconnect.
- Small overall size & same footprint as device – only 2.00mm larger than device.
- No external hold-downs required.
- Unique alignment pins protect pin field and aid in hand placement with optional stand-offs available.
- Sockets and Adapters are provided with protective covers which facilitate automated pick & place.
- Superior electrical performance – very low signal attenuation.

Specifications:

Terminals:

Brass - Copper Alloy (C36000) ASTM-B-16

Contacts:

Beryllium Copper (C17200) ASTM-B-194

Solder Ball:

Standard: 63Sn/37Pb
Lead-free: 0.50mm Pitch: 96.5Sn/3.0Ag/0.5Cu
0.65mm Pitch: 95.5Sn/4.0Ag/0.5Cu

Plating:

G - Gold over Nickel
Gold per ASTM-B-488
Nickel per QQ-N-290

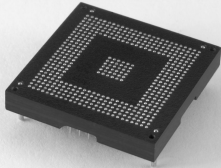
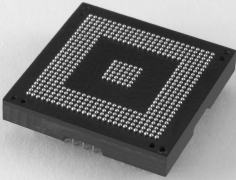
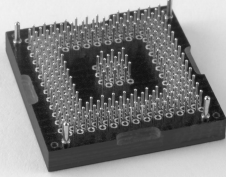
Note: Alignment pins are Nickel plated.



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Fine Pitch BGA Socket Adapter System 0.50mm and 0.65mm Pitch

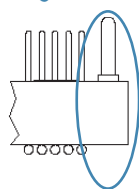
Table of Models

	Description: Standard Adapter (A) Material: FR-4 Fiberglass Epoxy Board Index: -40°C to 140°C (-40°F to 284°F) Note: Mates with Standard Socket for BGA device socketing.	Insulator Size: BGA device body +.079/(2.00)
	Description: SMT Adapter (A) Material: FR-4 Fiberglass Epoxy Board Index: -40°C to 140°C (-40°F to 284°F) Note: Mates with Standard Socket for LGA Socketing or Board to Board applications.	Insulator Size: LGA device body +.079/(2.00)
	Description: Standard Socket (S) Material: FR-4 Fiberglass Epoxy Board Index: -40°C to 140°C (-40°F to 284°F) Note: Mates with either Standard Adapter or SMT Adapter.	Insulator Size: BGA/LGA device body +.079/(2.00)

Note: Mated Height 0.214/(5.44)* approx.
(*will vary based on reflow profile, paste volume and PC board pad size)

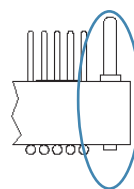
Options

Alignment Pin Options



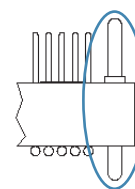
No Code

Alignment pin in each corner.



Code 1

Four alignment pins (top) with four stand-offs (bottom).



Code 2

Dual alignment pins (4 on top; 3 on bottom with stand-off in A1).

Note: Alignment pins are Nickel plated.

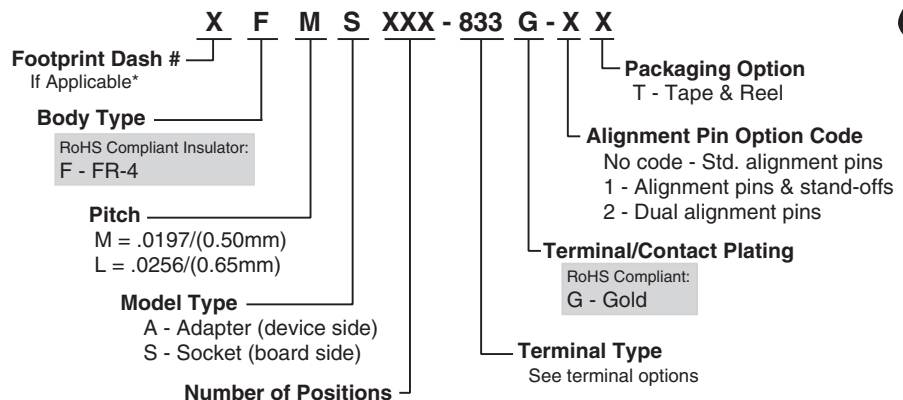
Packaging Options



Tape and Reel Packaging

- Conforms to EIA-481 Standard.
- Pick-up caps included.
- Add -T to end of part number when ordering.

How To Order



Note: If no packaging code is indicated, parts are supplied in standard trays.
Both sockets and adapters are supplied with protective covers and one extraction tool.
Extraction Tool is also available separately; order P/N 8794.

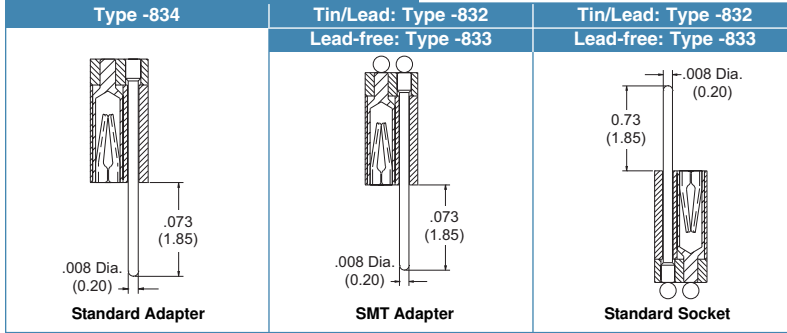
Products shown covered by patents issued and/or pending. Specifications subject to change without notice.

inch/(mm)

Fine Pitch BGA Socket Adapter System

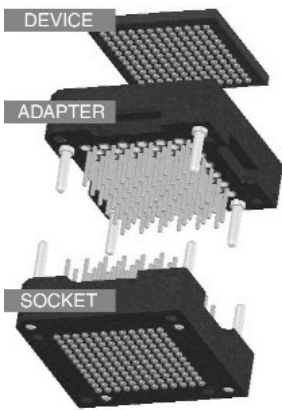
0.50mm and 0.65mm Pitch

Standard Terminals



Note: Solder ball diameter is 0.012/(0.30mm) on 0.50mm pitch models and 0.014/(0.36mm) on 0.65mm pitch models.

How It Works



Reflow solder device to Adapter.

Reflow solder Socket to PC Board.

See page 15 for Generic Reflow Profiles.

- Adapter matches footprint of BGA/LGA device and plugs into mating socket using unique male/female terminals in an interstitial pattern (patented design).
- Socket matches footprint of BGA/LGA device. Use alignment pins to align Device/Adapter assembly during insertion into board-mounted Socket.
- One extraction tool (P/N 8794) is supplied with each order.



Performance

Superior Electrical Performance

Even with adjacent Aggressor excitation, our socket system provides a Differential Data path of +/- 175mV @ 100psec and a Single-ended Data path of +/- 125mV @ 140psec.

Patented hybrid design ensures that adjacent terminal electromagnetic coupling is trivial; greatly reducing NeXT & FeXT, while creating a pseudo-matched impedance environment; stabilizing the Insertion & Return Loss response rates.

	0.50mm Pitch	0.65mm Pitch
Differential Insertion Loss	-0.40dB @ 1.0 GHz	-0.25dB @ 3.5 GHz
	-0.55dB @ 1.9 GHz	
Differential Return Loss	-15.0dB @ 1.0 GHz	-14.0dB @ 3.5 GHz
	-10.0dB @ 1.9 GHz	

Note: U.S. Patents 7,179,108 and 7,419,398

Insertion/Extraction Force

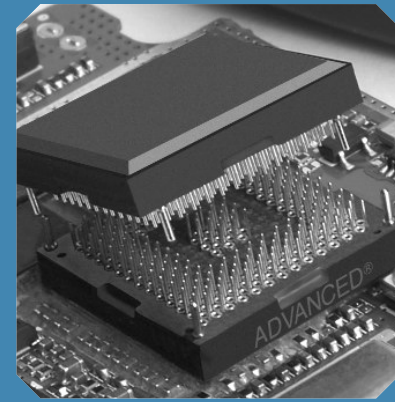
35g avg. Insertion & 30g Withdrawal (per pin)

Additional electrical performance, signal integrity data and models available online.

inch/(mm)

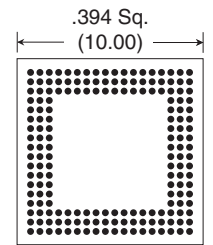
Products shown covered by patents issued and/or pending. Specifications subject to change without notice.

BGA Socket Adapter System



Footprints:

180 Pins
Footprint Number 180-2



18 x 18 rows

- Footprint specific insulators drilled to exact device pattern.
- Many footprints available - see page 88, search online or submit your device specs.
- Use our Build-A-Part feature or search in our online BGA Socket Finder™ at www.bgasockets.com.

Available Online:

- RoHS Qualification Test Report
- Application specification
- Technical articles
- Test data
- Signal Integrity Performance
- CAD drawings
- BGA Footprints



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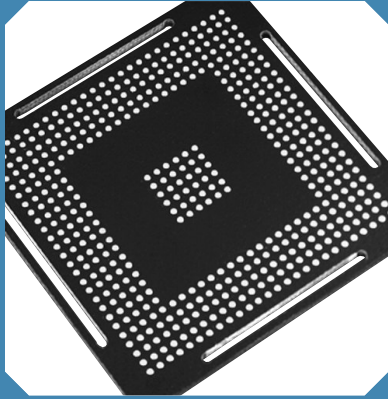


Table of Models

	<p>Description: Standard Adapter (A) Material: FR-4 Fiberglass Epoxy Board Index: -40°C to 140°C (-40°F to 284°F) Note: Mates with Standard Socket (S)</p>	<p>Insulator Size: BGA device body +.079/(2.00mm)</p>
	<p>Description: Extraction Slot Adapter (AX) Material: FR-4 Fiberglass Epoxy Board Index: -40°C to 140°C (-40°F to 284°F) Note: Mates with Extraction Socket (SB)</p>	<p>Insulator Size: BGA device body +.157/(4.00mm)</p>

Note: For use with LGA or reworked BGA devices, select surface mount (SMT) terminals which feature solder balls on device side. SMT Adapter terminals may also be used for surface mount board to board applications.

Features:

- Soldering BGA Device to adapter subjects BGA to less thermal stress than soldering BGA directly to a PCB due to the adapter's lower mass.
- Uses same footprint as BGA device.
- Custom adapters available for heat sink attachment.
- Gold plated screw-machined terminals for superior durability.
- Unique SMT Adapter provides reliable solution for mounting or socketing LGA or re-worked BGA devices.
- SMT Adapters mate with our BGA Sockets for LGA to BGA conversion or SMT Board to Board applications.

Specifications:

Terminals:

Brass - Copper Alloy
(C36000) ASTM-B-16

Solder Ball:

Standard: 63Sn/37Pb
 Lead-free: 95.5Sn/4.0Ag/0.5Cu

Plating:

G - Gold over Nickel

Gold per ASTM-B-488

Nickel per QQ-N-290

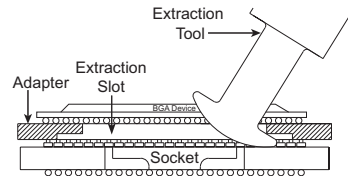
Options



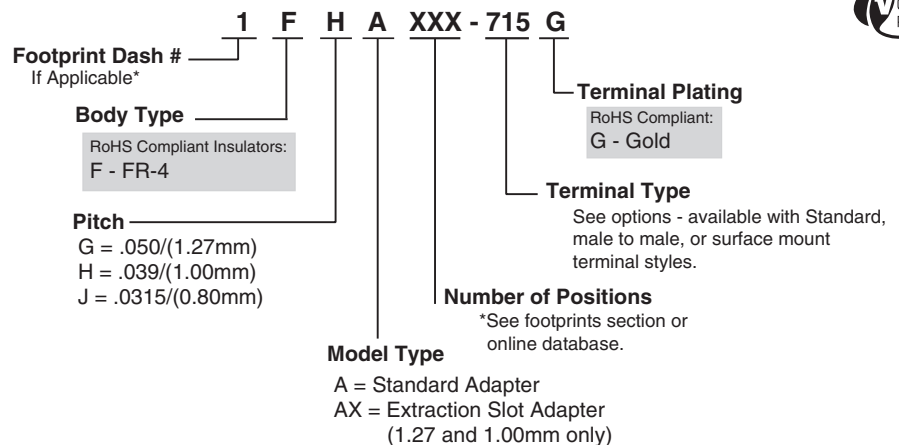
P/N 8125

Extraction Tool

- Insert "T" bar end of tool into extraction slot adapter.
- Slide tool to end of slot and pry adapter from socket.
- Repeat in additional slots until adapter is separated from socket.
- Works with LCP or FR-4 sockets.



How To Order



Note: See pages 4-5 for 0.50mm and 0.65mm pitch. Consult factory for custom 0.75mm pitch designs. For SMT Adapters, select Model Type A or AX and appropriate SMT Terminal Type from page 7.



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Ball Grid Array (BGA) Adapters

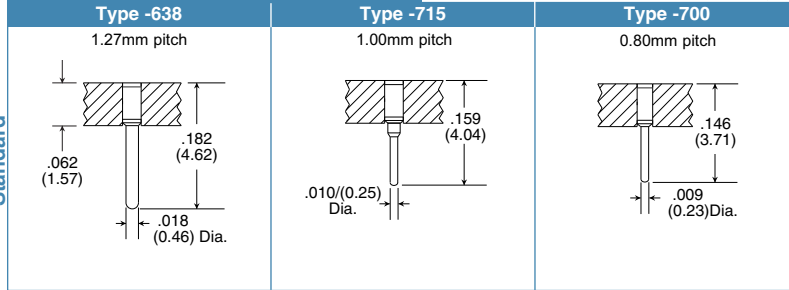
For use with BGA Sockets on pages 8-9

BGA Adapters

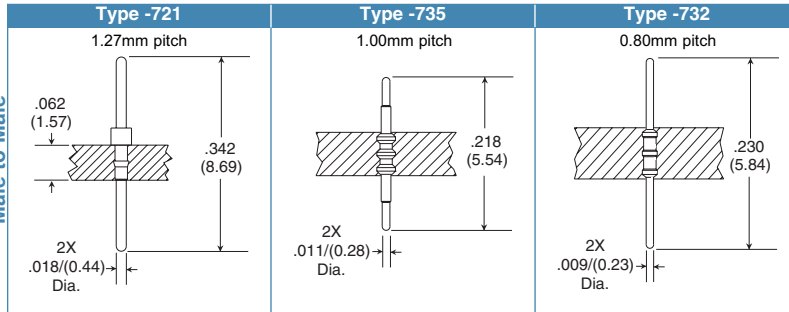
Additional standard and custom terminals available.
See Terminals section or consult factory.

Standard Terminals

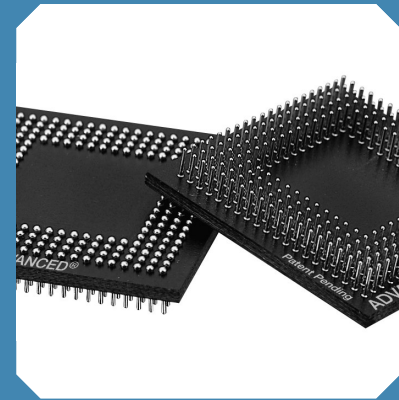
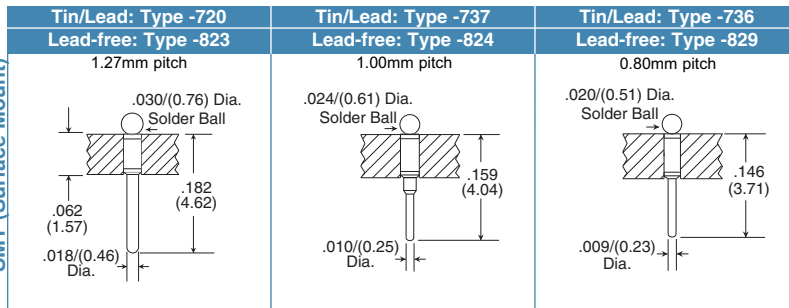
Standard



Male to Male

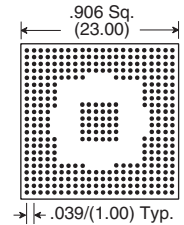


SMT (Surface Mount)



Footprints:

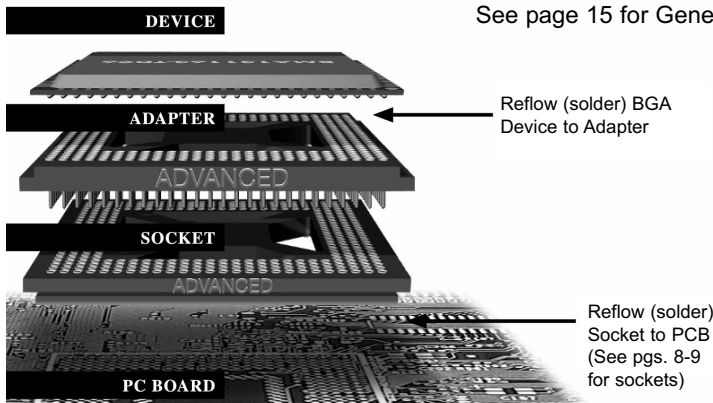
360 Pins
Footprint Number 360-2



22 x 22 rows

- Footprint specific insulators drilled to exact device pattern.
- Over 1000 footprints available - see page 88, search online or submit your device specs.
- Use our Build-A-Part feature or search in our online BGA Socket Finder™ at www.bgasockets.com.

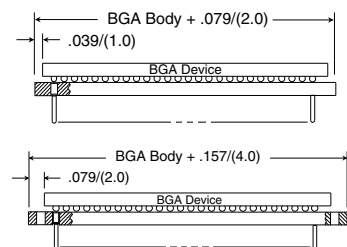
How It Works



See page 15 for Generic Reflow Profiles.

- Either Tin/Lead or Lead-free device packages can be attached to our RoHS Compliant Adapters.
- PC boards can be processed with Tin/Lead BGA sockets in standard profiles or lead-free BGA sockets in RoHS Compliant, high temperature profiles.

Dimensional Information



Standard Adapter (A)

- Mates with Standard Socket (S)
- Adapter size equals BGA Device body + .079/(2.00)

Extraction Slot Adapter (AX)

- Slots allow AIC extraction tool (sold separately) to easily remove device/adapter assembly from socket
- Mates with Extraction Socket (SB)
- Adapter size equals BGA Device body + .157/(4.00)

Available Online:

- RoHS Qualification Test Report
- Technical articles
- Test data
- Signal Integrity Performance
- CAD Drawings
- BGA Footprints

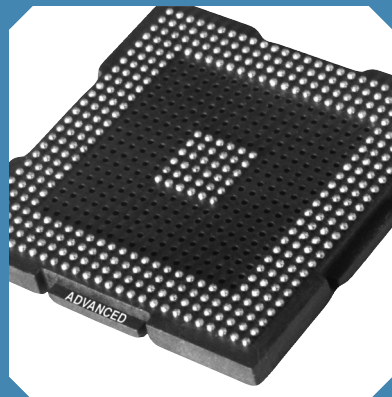


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inch/(mm)

Products shown covered by patents issued and/or pending. Specifications subject to change without notice.

BGA Adapter Sockets



Features:

- Advanced® exclusive solder ball terminals offer superior SMT processing.
- Same footprint as BGA device.
- Proven long-term performance in vigorous temperature cycling applications - solder ball terminal absorbs TCE mismatch.
- Closed bottom socket terminal for 100% anti-wicking of solder.
- Gold contacts allow gold/gold interconnections to Adapter pins.
- Low insertion force socket with multi-fingered high reliability Beryllium Copper contacts.
- Coplanarity consistently under .006 inch industry standard.
- Custom designs available.

Specifications:

Terminals:

Brass - Copper Alloy
(C36000) ASTM-B-16

Contacts:

Beryllium Copper
(C17200) ASTM-B-194

Solder Ball:

Standard: 63Sn/37Pb
Lead-free: 95.5Sn/4.0Ag/0.5Cu

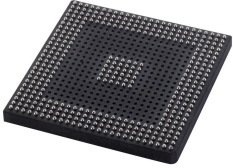
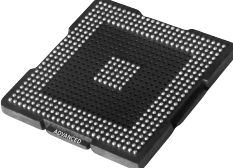
Plating:

G - Gold over Nickel
Gold per ASTM-B-488
Nickel per QQ-N-290

Ball Grid Array (BGA) Adapter Sockets

For use with BGA Adapters on pages 6-7

Table of Models

	Description: Standard Socket (S) Mat'l: High Temp. Liquid Crystal Polymer (LCP)* Index: -60°C to 260°C (-76°F to 500°F)	Insulator Size: Same size as BGA device body
	Description: Extraction Socket (SB) Mat'l: High Temp. Liquid Crystal Polymer (LCP)* Index: -60°C to 260°C (-76°F to 500°F)	Insulator Size: 1.27mm Pitch: BGA device body +.079/(2.00) 1.00mm Pitch: BGA device body +.138/(3.50)

RGS/RGSB replaces MGS/MGSB, MHS/MHSB replaces FHS/FHSB.

* Some sizes may only be available in FR-4. See How To Order section or consult factory.

Options



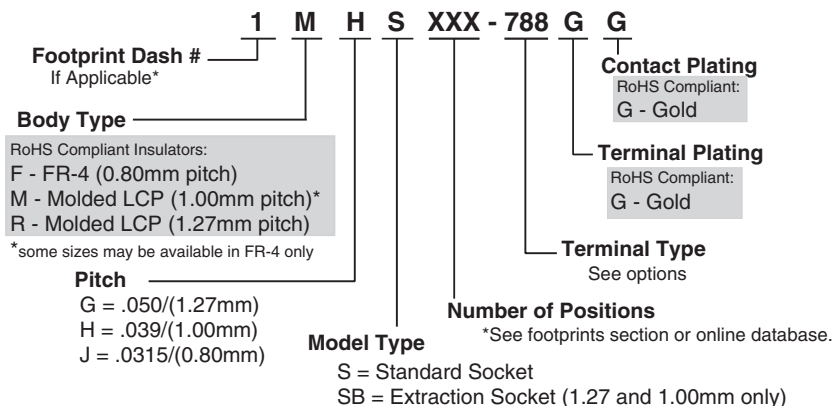
Tape and Reel Packaging

- Conforms to EIA-481 Standard.
- Pick-up tape included.
- Add -TR to end of part number when ordering.
- Custom packaging available
- If -TR is not specified, standard tray packs are used.



- Extraction tool (P/N 8125) is available separately.
- Works with Extraction Slot Adapters and LCP or FR-4 sockets.

How To Order



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Products shown covered by patents issued and/or pending. Specifications subject to change without notice.

inch/(mm)

Ball Grid Array (BGA) Adapter Sockets

For use with BGA Adapters on pages 6-7

Additional standard and custom terminals available.
See Terminals section or consult factory.

Standard Terminals

SMT (Surface Mount)

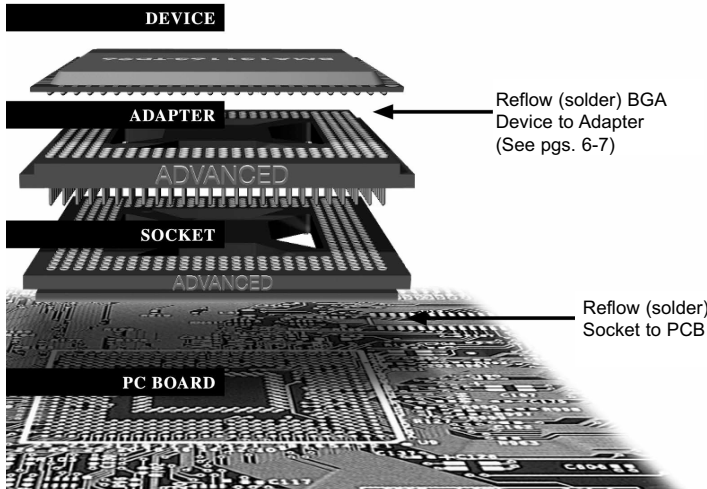
Tin/Lead: Type -636 Lead-free: Type -819	Tin/Lead: Type -790 Lead-free: Type -788	Tin/Lead: Type -702 Lead-free: Type -828
1.27mm pitch	1.00mm pitch	0.80mm pitch
PATENTED	PATENTED	PATENTED

Thru-Hole

Type -673	Type -789	Type -731
1.27mm pitch	1.00mm pitch	0.80mm pitch

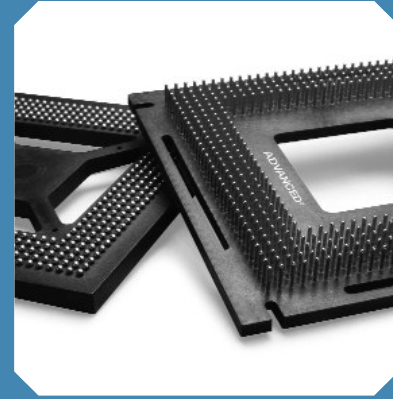
How It Works

See page 15 for Generic Reflow Profiles.



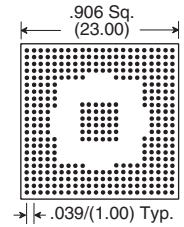
- Either Tin/Lead or Lead-free device packages can be attached to our RoHS Compliant Adapters.
- PC boards can be processed with Tin/Lead BGA sockets in standard profiles or lead-free BGA sockets in RoHS Compliant, high temperature profiles.

BGA Adapter Sockets



Footprints:

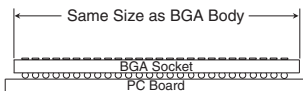
360 Pins
Footprint Number 360-2



22 x 22 rows

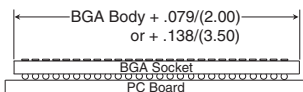
- Full grid molded insulators populated to exact device pattern.
- Over 1000 footprints available - see page 88, search online or submit your device specs.
- Use our Build-A-Part feature or search in our online BGA Socket Finder™ at www.bgasockets.com.

Dimensional Information



Standard Socket (S)

- Mates with Standard Adapter (A)
- Socket size same as BGA device body
- Use with SMT Adapter for LGA and reworked BGA device socketing (or board to board applications)



Extraction Socket (SB)

- Mates with Extraction Slot Adapter (AX)
- Socket size equals BGA body + .079/(2.00) for 1.27mm pitch or BGA body + .138/(3.50) for 1.00mm pitch
- Protects valuable PCB during device/adapter extraction - tool never touches PCB
- Available in 1.00 and 1.27mm pitch only

Available Online:

- RoHS Qualification Test Report
- Technical articles
- Test data
- Signal Integrity Performance
- CAD drawings
- Generic Tin/Lead and Lead-free Reflow Profiles



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Flip-Top™ BGA Sockets

Mod5 Series Flip-Top™ BGA Sockets 0.50mm Pitch



Features:

- Model shown accommodates BGA packages up to 12mm sq. (22 x 22 rows) with larger sizes available upon request.
- Precision machined spring probes offer high bandwidth with very low insertion loss.
- Compact size (small keepout zone) enables use on design boards.

Specifications:

Guide Box:

High Temp. Glass Filled Thermoplastic (PPS)
Screws: 18-8 Stainless Steel

Base Socket:

FR-4 Glass Epoxy,
U.L. Rated 94V-0

Lid, Latch, Heat Sink, and Support Plate:

Anodized Aluminum

Spring Probe Terminals:

Crown-point Plunger:
Tool Steel, Gold Plated
Spring: Stainless Steel,
Gold Plated
Terminal: Brass (C36000),
Gold Plated

Solder Ball (Board Interface)

RoHS Compliant (Lead-free):
96.5Sn/3.0Ag/0.5Cu (SAC305)

Not RoHS (Tin/Lead):

63Sn/37Pb

Continuous Operating Temperature Range:

-40°C to 140°C (-40°F to 284°F)



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Table of Models

	<p>Description: SMT Standard (FRM)</p> <p>Note 1: See Application Spec. for recommended adhesive (epoxy) instructions.</p>	<p>Terminal Type -860 Sn/Ag/Cu Solder Ball</p> <p>Terminal Type -861 Sn/Pb Solder Ball</p>
	<p>Description: SMT/Screw Mount (FRM)</p> <p>Note 2: Screws provided for additional strain relief when needed; reflow still required.</p>	<p>Terminal Type -864 Sn/Ag/Cu Solder Ball</p> <p>Terminal Type -865 Sn/Pb Solder Ball</p>
	<p>Description: SMT Plus (FRM)</p> <p>Note 3: Additional solder balls provided for strain relief in low pin count SMT applications.</p>	<p>Terminal Type -862 Sn/Ag/Cu Solder Ball</p> <p>Terminal Type -863 Sn/Pb Solder Ball</p>

For device packages up to 12mm square:

Body Size

0.79/(20mm) W x 1.06/(27mm) L

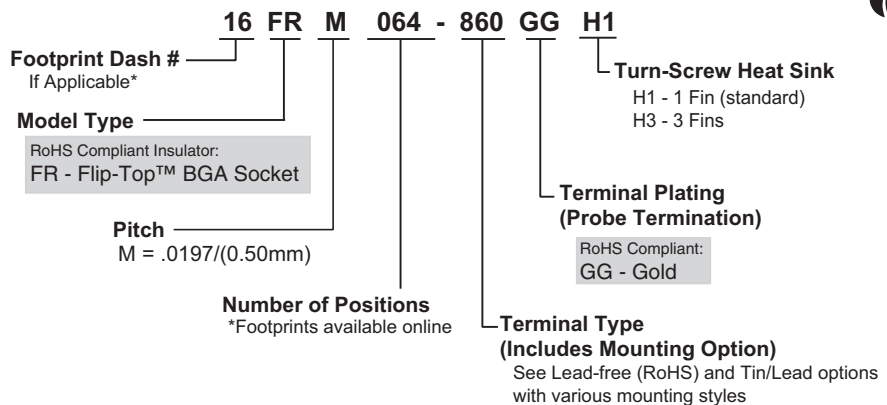
Height

0.68/(17.4mm)* approx. (*will vary based on reflow profile, paste volume, etc.)

Additional mounting options and custom designs available.

Consult factory for QFN and LGA devices.

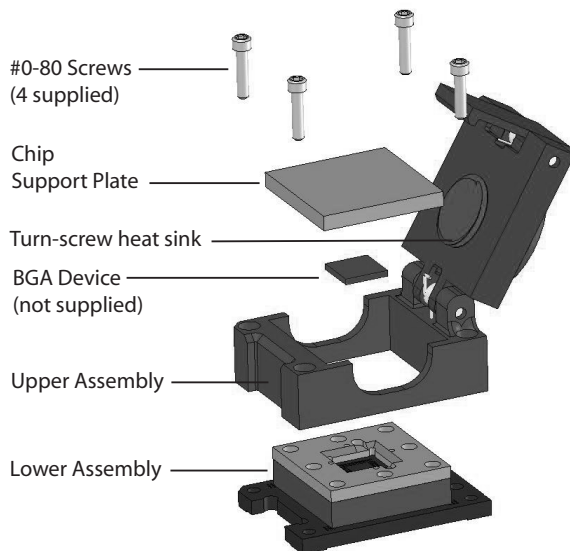
How To Order



- 4-point crown tip spring probes accurately align device solder balls, leaving only minimal witness marks to preserve the solder ball integrity
- Device mechanical specifications are required prior to ordering to ensure accuracy of device-specific chip support plate
- Sockets are packaged in foam-lined cartons

Mod5 Series Flip-Top™ BGA Sockets 0.50mm Pitch

How It Works



Step 1: Solder lower assembly to PC board.

Step 2: Attach upper assembly using four supplied screws.

Step 3: Insert BGA device by hand or with the aid of a vacuum pen (recommended).

Step 4: Place device-specific chip support plate (supplied) over device, close lid, and screw down heat sink actuator for device engagement.

Performance

Durability

Actuation cycles: 500 minimum

Current Carrying Capacity

2.8 Amps Max.

Probe Contact Force

18 g (per position)

Probe Contact Resistance

80 mOhms

Return Loss*

Differential	Single-Ended
-10db @ 2.6 GHz	-10db @ 8.0 GHz
-15db @ 1.3 GHz	-15db @ 3.5 GHz

Insertion Loss*

Differential	Single-Ended
-0.6db @ 2.6 GHz	-2.1db @ 8.0 GHz
-0.2db @ 1.3 GHz	-0.9db @ 3.5 GHz

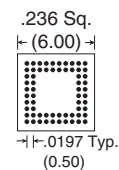
*Complete SI Simulation Report Available

Flip-Top™ BGA Sockets



Footprints:

64 Pins
Footprint Number 64-16



10 x 10 rows

- Footprint specific insulators drilled to exact device pattern.
- Over 100 footprints available - search online, see pg. 84, or submit your device specs.
- Use our Build-A-Part feature or search in our online BGA Socket Finder™ at www.bgasockets.com.

Available Online:

- Technical articles
- Test data
- Signal Integrity Performance
- CAD drawings
- BGA Footprints



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Flip-Top™ BGA Sockets

Flip-Top™ BGA Sockets 1.27mm and 1.00mm Pitch

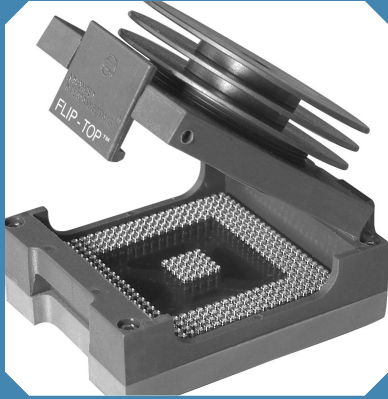
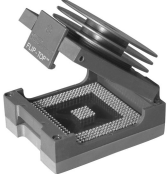
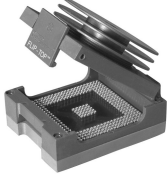


Table of Models

	<p>Description: Socket (FRG, 1.27mm pitch) Guide Box and Base Mat'l: High Temp. Liquid Crystal Polymer (LCP) Index: -40°C to 260°C (-40°F to 500°F)</p>	<p>Socket Size: 3.00mm wider and 10.00mm longer than BGA device (for packages larger than 15.00mm square).*</p>
	<p>Description: Socket (FRH, 1.00mm pitch) Guide Box Mat'l: High Temp. Liquid Crystal Polymer (LCP) Index: -40°C to 260°C (-40°F to 500°F) Base Mat'l: FR-4 Glass Filled Epoxy Index: -40°C to 140°C (-40°F to 284°F)</p>	<p>Socket Size: 3.00mm wider and 10.00mm longer than BGA device (for packages larger than 15.00mm square).*</p>

Features:

- Designed to save space on new and existing PC boards in test, development, programming and production applications.
- No external hold-downs or soldering of BGA device required.
- AIC exclusive solder ball terminals offer superior processing.
- Uses same footprint as BGA device.
- Available with integral, finned heat sink or coin screw clamp assembly.

Specifications:

Terminals:

Brass - Copper Alloy (C36000) ASTM-B-16

Contacts:

Beryllium Copper (C17200) ASTM-B-194

Plating:

G - Gold over Nickel

Terminal Support:

Polyimide Film

Spring Material:

Stainless Steel

Lid, Latch, Heat Sink/Coin Screw and Support Plate Material:

Aluminum

Solder Ball:

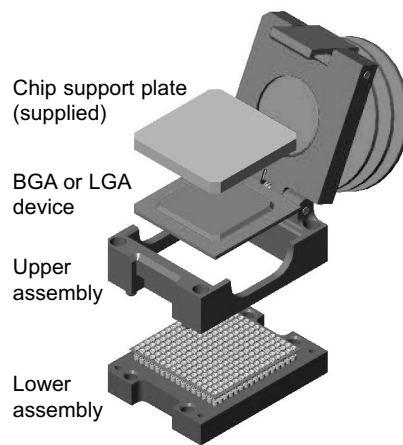
Standard: 63Sn/37Pb

Lead-free: 95.5Sn/4.0Ag/0.5Cu

FRG replaces FTG.

* For device packages smaller than 15.00mm square, the socket size is X = .709/(18.00) and Y = .984/(25.00).

How It Works



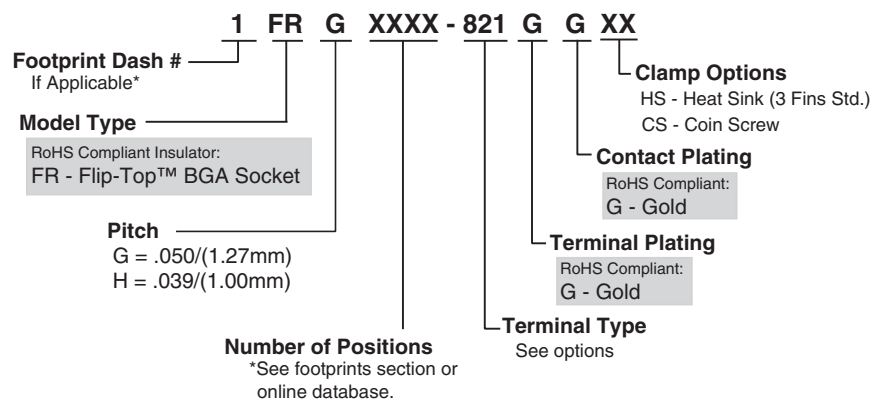
SMT models are shipped un-assembled to ease solderability. Thru-hole models are shipped fully assembled.

1. Lower assembly is soldered to PC board with no external hold-down mechanism. Thru-hole models may be soldered to PC board or plugged into a mating socket.
2. Upper assembly inserts easily to lower assembly by aligning guide posts and installing four (supplied) screws.
3. Finned heat sink or coin screw is screwed down to flush with bottom of lid.
4. Lid opens easily by pressing latch.
5. BGA device is inserted by aligning A1 position with chamfered corner of Flip-Top™ socket. Place support plate on top of device, close lid, engage heat sink or coin screw, and socket is ready for use.

See page 15 for Generic Reflow Profiles.

Detailed Installation and General Usage Instructions are provided with product.

How To Order



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Flip-Top™ BGA Sockets

1.27mm and 1.00mm Pitch

Flip-Top™ BGA Sockets



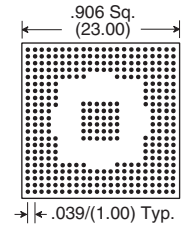
Terminals (for test, development and production applications)	
Tin/Lead: Type -690 Lead-free: Type -821	Tin/Lead: Type -752 Lead-free: Type -837
1.27mm pitch 	1.00mm pitch
Type -708 	Type -754

Terminals (for LGA or de-balled BGA device applications)	
Tin/Lead: Type -713 Lead-free: Type -822	Tin/Lead: Type -762 Lead-free: Type -838
1.27mm pitch 	1.00mm pitch
Type -712 	Type -763

Terminals (for BGA device test applications)	
Tin/Lead: Type -659 Lead-free: Type -820	Tin/Lead: Type -TBD Lead-free: Type -TBD
1.27mm pitch 	1.00mm pitch <p>Consult Factory</p>
Type -657 <p>Available with .016/(0.41mm) Diam. tail; Type -709</p>	Type -TBD <p>Consult Factory</p>

Footprints:

360 Pins
Footprint Number 360-2



22 x 22 rows

- Full grid molded insulators populated to exact device pattern.
- Over 1000 footprints available - see page 99, search online or submit your device specs.
- Use our Build-A-Part feature or search in our online BGA Socket Finder™ at www.bgasockets.com.

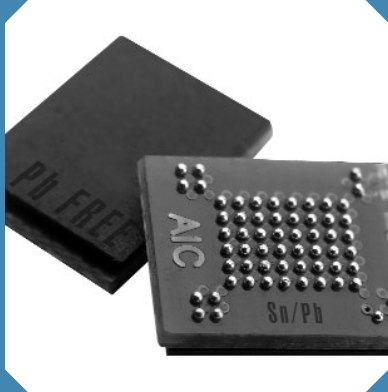
Available Online:

- RoHS Qualification Test Report
- Technical articles
- Test data
- Signal Integrity Performance
- CAD drawings
- BGA Footprints



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Lead-free Applications



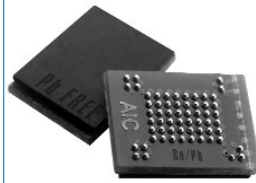
Features:

When BGA devices are transitioned to lead-free packages, OEMs with RoHS exempt applications are faced with costly PC board redesign and/or the added cost and time delays associated with re-qualifying the board soldering profile. BGA Interposers and Socket Adapter Systems from Advanced are cost-effective methods for converting lead-free BGA device packages for use on boards processed with traditional Tin/Lead solder reflow profiles. These proven solutions solve BGA device transition, obsolescence, and solderability issues associated with the higher temperatures required in lead-free solder reflow profiles.

- Reduces costs associated with device package transition or obsolescence
- Solutions available for both RoHS compliant and exempt applications
- Industry proven screw-machined terminals with solder balls provide the high reliability required in medical, military, telecom, and automotive applications
- Same footprint as BGA device
- Device attach services available in-house
- Standard and custom designs
- Tape and Reel packaging available

Typical Lead-free (RoHS) Applications

Custom BGA Interposer



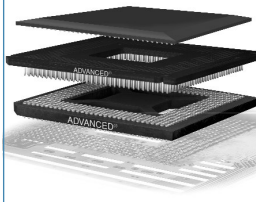
New BGA Interposers from Advanced Interconnections are a cost-effective method for converting lead-free BGA device packages for use on boards processed with lower temperature, Tin/Lead solder profiles.

Designed for RoHS exempt applications, Interposers from Advanced solve BGA device transition, obsolescence, and solderability issues associated with the higher temperature requirements to process lead-free BGA packages.

Advanced's turn-key solution consists of lead-free BGA device attach to an Interposer adapter board in a high temperature reflow process, followed by mounting of eutectic (63/37) Tin/Lead solder balls on the bottom of the Interposer. The compact Interposer assembly is shipped ready for use on existing PC boards, eliminating the need to change Tin/Lead solder profiles or subject other components to higher processing temperatures.

- Reduces costs associated with device package transition or obsolescence.
- Lead-free device attach service provided.
- Industry-proven solder ball terminal design provides the high reliability required in medical, military, telecom, and automotive applications.
- High temperature FR-4 adapter board closely matches original package size.
- Same footprint as BGA device (currently available in 0.80, 1.00, and 1.27mm pitch).
- Custom designed to customer's requirements.
- Tape and Reel packaging available.

Standard BGA Socket Adapter System



BGA Socketing Systems from Advanced® offer an economical and dependable alternative to direct device attach. Our patented SMT designs are field-proven in production, development, programming and test applications. Compact designs and patented features offer you cost effective solutions for BGA, LGA or CSP device replacement, repair, upgrade, and testing while protecting valuable PC boards and devices from damage associated with direct device attach and removal.

- See pgs. 4-11 for standard models.
- Custom designs available.
- See page 15 for typical solder process example.

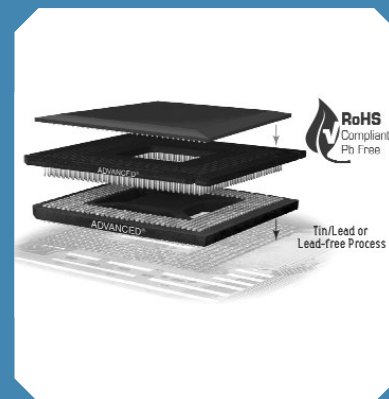


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Typical Solder Process Example*

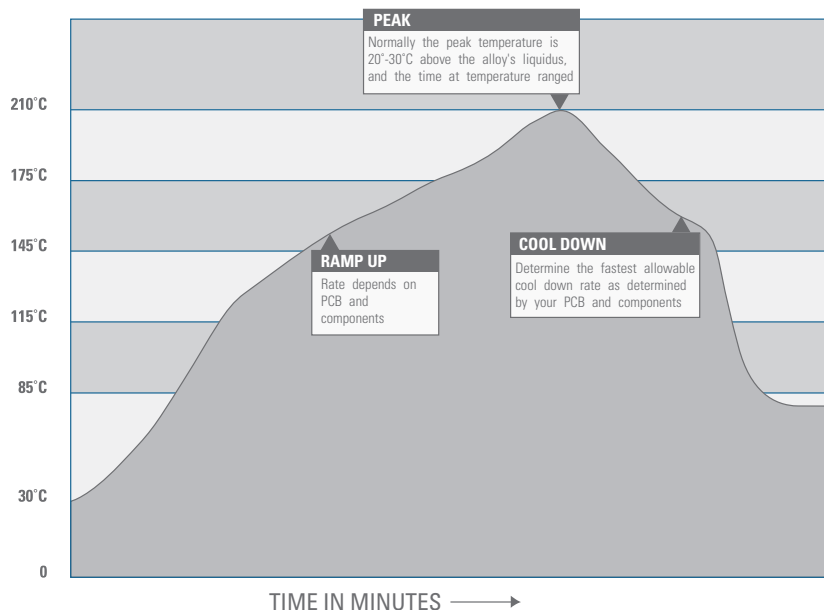
1. Solder Paste Deposition
 - Solder paste should be selected based on application requirements.
 - The recommended solder volume is 0.0016 - 0.0032 cubic inches (0.040 - 0.080 cubic mm) with a pad diameter of 0.020 - 0.028 inches (0.51 - 0.71mm).
2. Solder Reflow
 - See profile.
3. Inspection and Testing
 - Initial visual inspection for positioning of solder ball to pad along perimeter is recommended to verify reflow of balls.
 - Secondary X-Ray tests for overall continuity verification are recommended.
 - For production applications, electrical MDA (Mfg. Defects Analysis) tests are recommended.

Generic Reflow Profiles



Generic Reflow Profile

63Sn/37Pb Solder Liquidus@183°C (361°F)

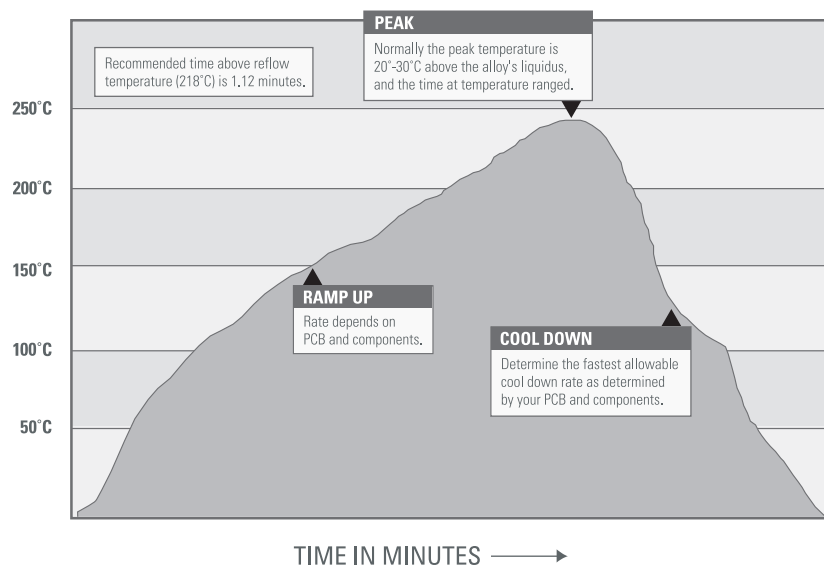


Notes:

- These typical solder process examples are presented as a guideline for use with our BGA Socketing Systems in both Tin/Lead and Lead-free Reflow Profiles.
- A Generic Lead-free Solder Reflow Profile is provided as a guideline when using our products that feature the new Sn/Ag/Cu solder balls.
- Actual solder process requirements will be determined by the customer, based on the specific application.
- Contact our customer service department for application assistance and additional information.

Generic Lead-free Reflow Profile

95.5Sn/4.0Ag/0.5Cu Liquidus@218°C (424°F)



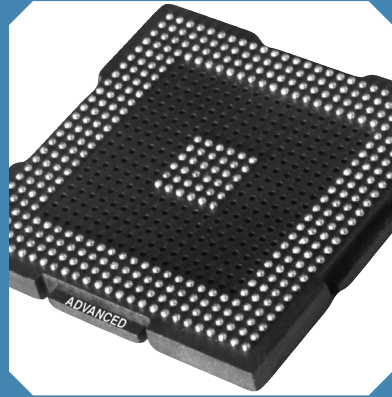
*Solder process recommendation is presented for guidance only. Factors such as different board sizes, densities, and equipment will change actual solder process requirements. Example presented should be used as a starting point only - actual solder process specifications should be developed based on individual requirements and capabilities.



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Design Your Own BGA Socket

BGA Device Dimension and I/O Requirements



Contact Information

Date: _____

Company Name: _____

Address: _____

City: _____ State: _____ ZIP: _____ Country: _____

Specifier: _____ Title: _____

Phone: _____ Fax: _____

Email: _____

Fill in Ball Location

Fill in ball location* or attach complete device mechanical specifications.

*All sockets (footprints) viewed top down - looking toward seating plane of PCB and into female side of socket.

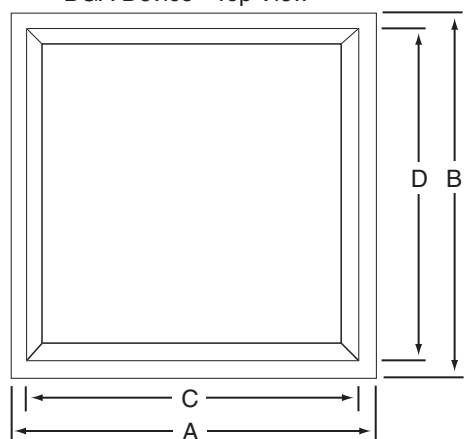
Advanced Interconnections has complete design and manufacturing capabilities for your BGA socket needs.

By answering the following questions we can design a socket to meet your requirements.

Copy this page and fill in the information required and/or attach complete device mechanical spec. Fax to 401-823-8723, or email to info@advanced.com.

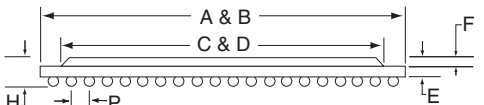
Complete the required dimensional table and attach BGA mechanical specifications including footprint.

BGA Device - Top View



Dim.	inches	mm	Tol.
A			
B			
C			
D			
E			
F			
H			
P			

BGA Device - Side View



Device Manufacturer: _____

BGA Device Model No.: _____

Application: _____

Number of Balls: _____

Grid Pattern (rows across x down): _____


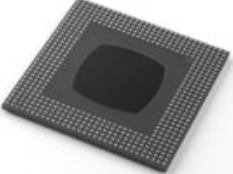
Pitch (specify inches or mm): _____

ADVANCED INTERCONNECTIONS

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BGA Device Attach and Solder Ball Re-attach Services

Value Added Services

	<p>Advanced offers BGA Device Attach Services on either customer supplied BGA Adapters or our own Advanced® BGA Adapters. Save time and money by ordering your Device Attach Service in conjunction with Advanced® BGA Adapters and mating sockets, both featuring the highest quality, screw-machined terminals.</p>
	<p>BGA Solder Ball Re-attach Services are available to restore previously used BGA devices to usable condition - perfect for expensive or hard to find BGA devices.</p>

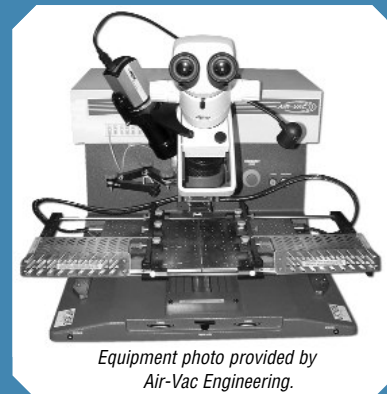
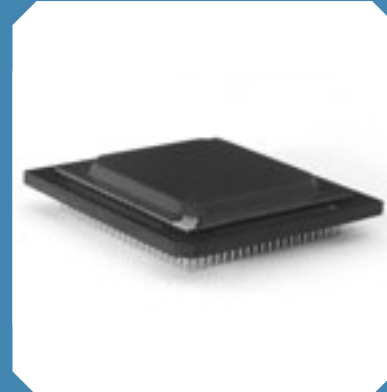
Order Requirements

Device Attach	Solder Ball Re-attach
Quantity	Quantity
Adapters (indicate if supplied or we should add to the quote)	Solder ball composition
Electrical testing requirements (shorts, etc.)	Additional requirements
Device mfg. name, part number, and mechanical specifications (see form on page 12, use online form, or submit required information via email)	Device mfg. name, part number, and mechanical specifications (see form on page 12, use online form, or submit required information via email)
Bake-out for moisture control and thermal cycle specifications.	Bake-out for moisture control and thermal cycle specifications.

Notes:

- Semiconductors must be supplied in ESD protective (anti static) packaging, vacuum sealed for moisture control, with outside containers marked accordingly.
- Advanced Interconnections assumes no responsibility or liability for the function of customer-supplied semiconductors either before or after the value added service is performed.
- Device attachment assemblies will be x-rayed for quality assurance. (AQL .4)
- Product is reshipped in ESD trays with internal foam layers in ESD shielded Vacuum sealed bags. If alternative method is required, customer shall provide all materials.
- Delivery will be supplied with quote.
- Volume above 10 pieces should be supplied in pick-and-place carriers.

BGA Value Added Services



Equipment List:

- Air-Vac DRS24 BGA Rework Station
- Speedline MPM Ultraprint 2000 Fully Automatic Stenciler
- HTI Semi-Automatic Stenciler
- Quad Meridian 1030P Precision Pick & Place Machine
- Quad 4C Precision Pick & Place Machine
- BTU Oven VIP 98 Reflow Oven
- J.O.T. Panelmaster 18HS PC Board Router
- Nicolet X-Ray NXR-10HR X-Ray with Photo



Features:

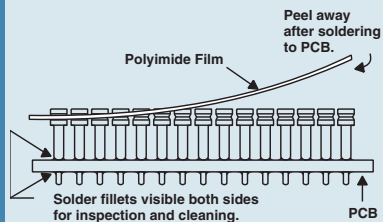
- Low profile.
- Eliminates hand-loading of socket terminals.
- Multiple terminal styles available on single sheet.
- Compatible with high temperature, RoHS Compliant profiles.
- Peel-A-Way® carrier can be removed after soldering for complete solder joint visibility or left in place for added stability.

Material:

Polyimide Film
Index: -269°C to 400°C
(-452°F to 752°F)



How To Use:

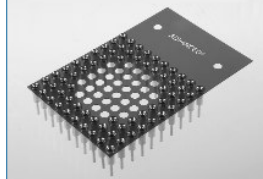


1. Place socket on PC board.
2. Send PC board and socket through soldering operation.
3. Peel away polyimide film carrier for complete solder joint visibility or leave in place for added stability.



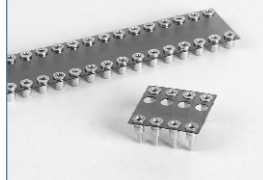
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Standard Models



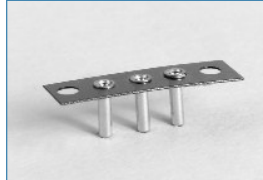
PGA Sockets and Adapters

- Standard and interstitial grids
- Hundreds of terminal styles to choose from
- See pgs. 19-25



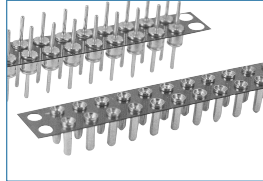
DIP Sockets

- Standard sizes in row to row spacing from .300/(7.62mm) to .900/(22.86mm) with 8 to 64 positions
- See pgs. 30-31



SIP Sockets and Adapters

- Available from 2 to 100 positions for SIP device socketting or board to board connector applications
- See pgs. 36-39

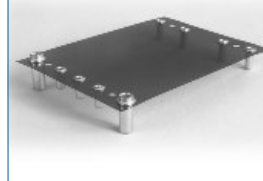


Board to Board Connectors

- Single, dual and triple row configurations
- .100/(2.54mm), .079/(2.00mm), .050/(1.27mm) pitch and staggered models available
- See pgs. 40-51



Custom Configurations



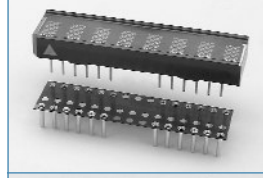
SocketPac® Relay Sockets

- Sockets for power converters, splitters, I/O voltage modules, transformers, or test jack locations
- Power module sockets for DC/DC converters
- Eliminates heat distribution problems during wave soldering operations
- Facilitates power supply replacement, upgrades, and repairs



Sheets of Sockets

- Maximizes socket loading rate
- No expensive tooling required
- Available with cut-out areas for loading caps, resistors, ICs, etc.



Custom LED Socket

- Allows LED to be plugged in after board is processed in a lead-free profile
- Protects device from damage caused by high temperature processing

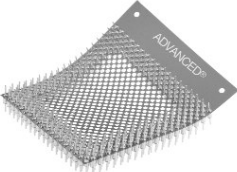
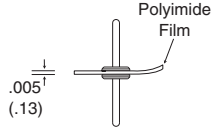
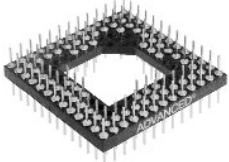
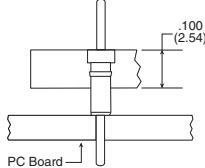


Custom 6 Position Peel-A-Way® Socket

- This custom flex circuit socket features solder preform terminals in our patented Peel-A-Way® Removable Terminal Carrier. The design eliminated the need for hand loading terminals and wave soldering while meeting a low-profile specification and allowing complete solder joint visibility.

Pin Grid Array Adapters .100/(2.54mm) Standard Grid

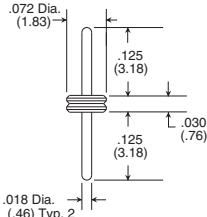
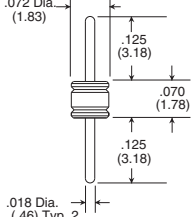
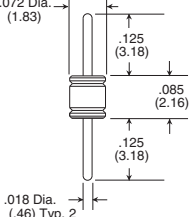
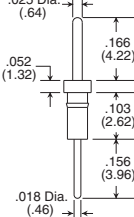
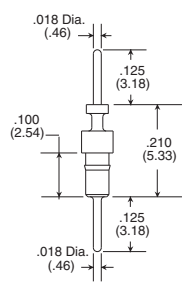
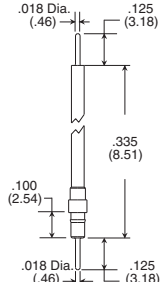
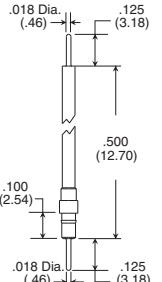
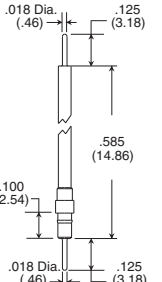
Table of Models

	<p>Description: Peel-A-Way® (KA) Material: Polyimide Film Index: -269°C to 400°C (-452°F to 752°F)</p>	
	<p>Description: Molded (RCA) Mat'l: High Temp. Liquid Crystal Polymer (LCP) Index: -40°C to 260°C (-40°F to 500°F)</p>	

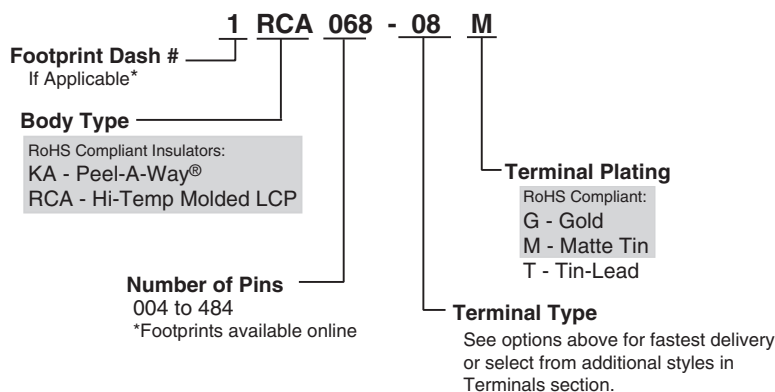
RCA replaces HCA.

Standard Terminals

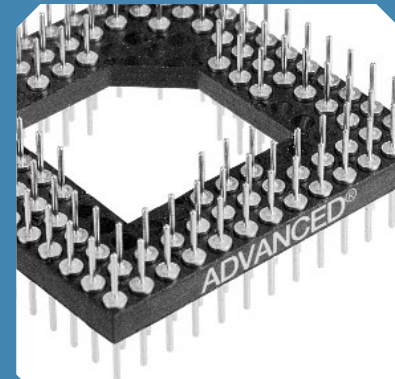
Additional standard and custom terminals available.
See Terminals section or consult factory.

<p>Type -79 Peel-A-Way® only</p> 	<p>Type -80 Peel-A-Way® only</p> 	<p>Type -81 Peel-A-Way® only</p> 	<p>Type -08 Molded only</p> 
<p>Type -68 Molded only</p> 	<p>Type -43 Molded only</p> 	<p>Type -185 Molded only</p> 	<p>Type -42 Molded only</p> 

How To Order



PGA Adapters



Features:

- Screw-machined terminals for long-term durability.
- Mating sockets available.
- Custom designs available.

Specifications:

Terminals:

Brass - Copper Alloy
(C36000) ASTM-B-16

Plating:

- G - Gold over Nickel
- M - Matte Tin over Nickel
- T - Tin/Lead over Nickel

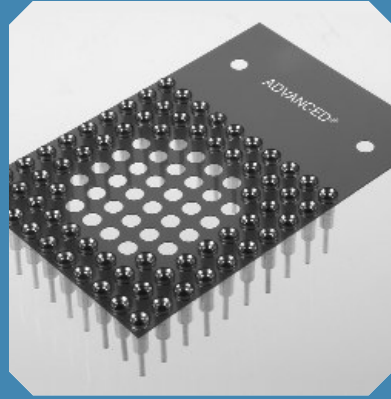
Gold per ASTM-B-488
 Matte Tin per ASTM545-97
 Tin/Lead per MIL-P-81728
 Nickel per QQ-N-290

Available Online:

- Hundreds of footprints
- Extraction Tools
- RoHS Qualification Test Report
- CAD Drawings



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Features:

- Low insertion force (1 oz. average per pin).
- Screw-machined terminals with multiple finger contacts for reliability.
- Closed bottom terminal for 100% anti-wicking of solder.
- Tapered entry for ease of insertion.
- Custom designs available.

Specifications:

Terminals:

Brass - Copper Alloy
(C36000) ASTM-B-16

Contacts:

Beryllium Copper
(C17200) ASTM-B-194

Solder Preform:

Standard: 63Sn/37Pb
Lead-free: 95.5Sn/4.0Ag/0.5Cu

Plating:

G - Gold over Nickel
M - Matte Tin over Nickel
T - Tin/Lead over Nickel

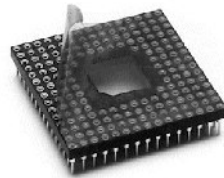
Gold per ASTM-B-488
Matte Tin per ASTM545-97
Tin/Lead per MIL-P-81728
Nickel per QQ-N-290

Table of Models

	<p>Description: Peel-A-Way® (KIS) Material: Polyimide Film Index: -269°C to 400°C (-452°F to 752°F)</p>	
	<p>Description: FR-4 (FIS) Material: FR-4 Fiberglass Epoxy Board Index: -40°C to 140°C (-40°F to 284°F)</p>	
	<p>Description: Molded (RIS) Mat'l: High Temp. Liquid Crystal Polymer (LCP) Index: -40°C to 260°C (-40°F to 500°F)</p>	

RIS replaces HCIS, HCS, CIS, and CS. KIS replaces KS. FIS replaces FS.

Options



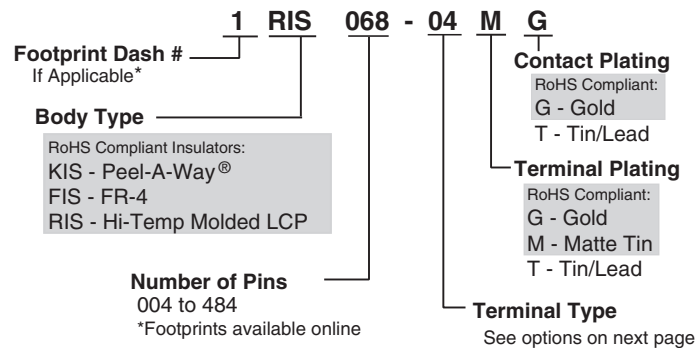
Tape Seal - add 3M to end of part number

- Removable tape seal protects plated contact in harsh environments
- Sealed socket will not allow dirt and other contaminants to enter socket chamber and become entrapped behind contact fingers
- Spray flux without contaminating contact area

Material

Silicone Backed Polyimide Film, -74°C to 260°C (-100°F to 500°F)
Intermittent to 371°C (700°F)

How To Order



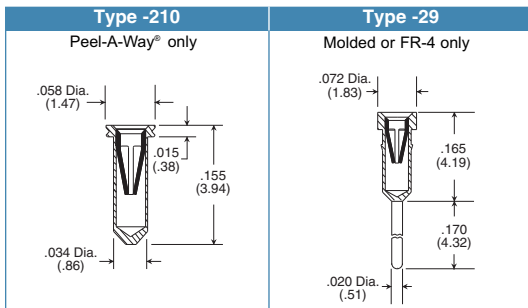
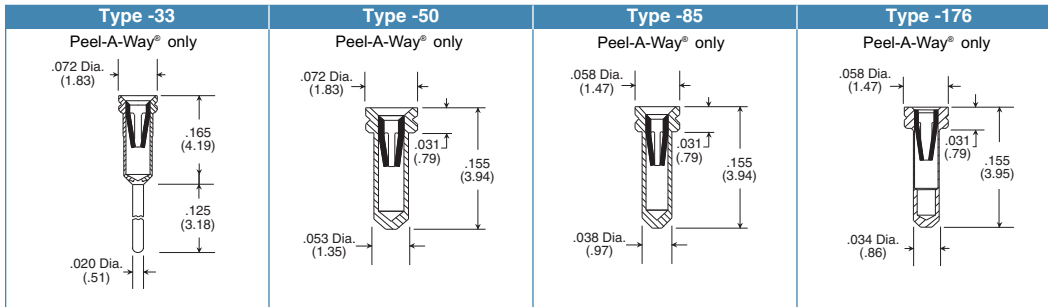
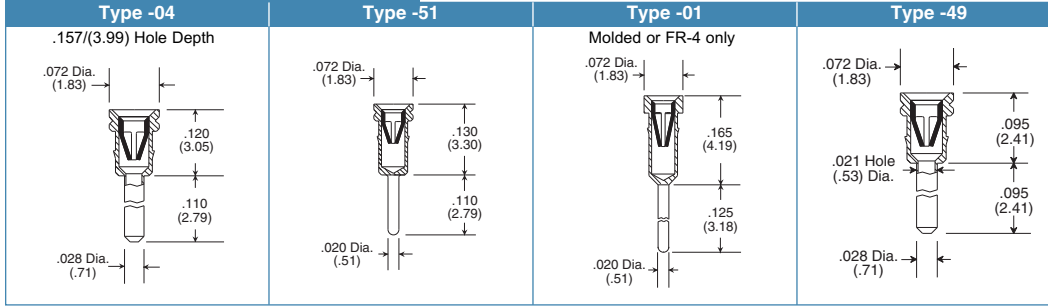
Note: Terminals plated with Matte Tin are available only with Gold plated contacts.

Low Insertion Force PGA Sockets .100/(2.54mm) Standard Grid

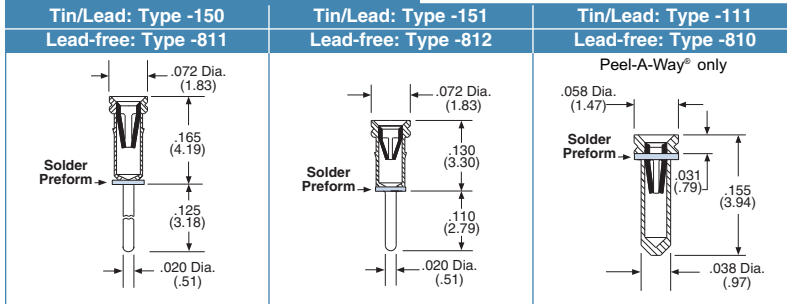
PGA Sockets

Standard Terminals

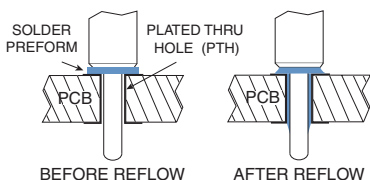
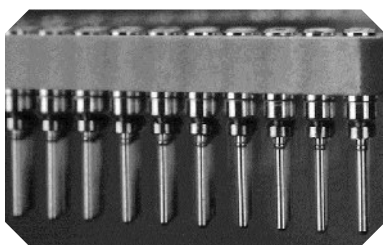
Additional standard and custom terminals available.
See Terminals section or consult factory.



Solder Preform Terminals

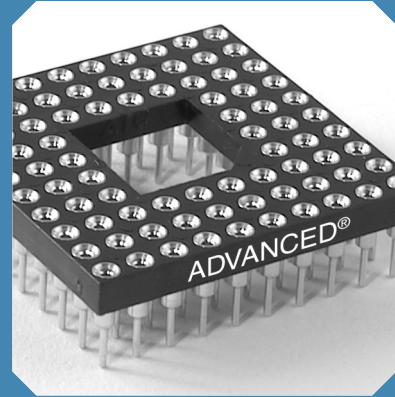


Intrusive Reflow Application



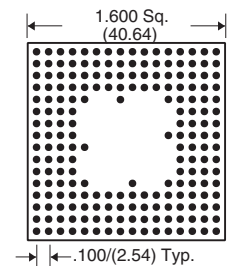
Solder Preform Terminals

- Combines the labor of socket loading and solder application into one operation.
- Eliminates the use of solder paste and screening operation.
- Eliminates solder bridges and/or solder shorts due to excess solder.
- Ensures a reliable solder joint with controlled solder volume.
- Ideal for surface mount and mixed technology applications.
- For custom solder preform terminal applications consult factory.



Footprints:

200 Pins
Footprint Number 200-1



16 x 16 rows

- Full grid insulators loaded to your specific footprint.
- Open centers available upon request (consult factory).
- Hundreds of footprints available online.
- Use our online Build-A-Part feature or download a Footprints Booklet in PDF format.

Available Online:

- Extraction Tools
- RoHS Qualification Test Report
- CAD Drawings



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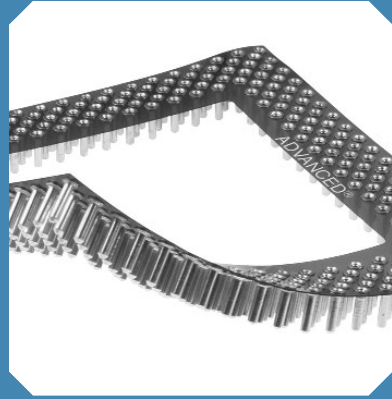
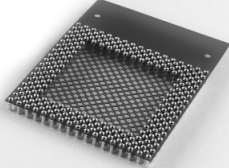
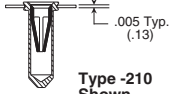

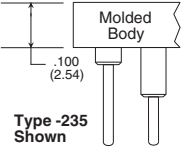


Table of Models

	<p>Description: Peel-A-Way® (KSX) Material: Polyimide Film Index: -269°C to 400°C (-452°F to 752°F)</p>	 <p>Type -210 Shown</p>
	<p>Description: Molded (RSX) Mat'l: High Temp. Liquid Crystal Polymer (LCP) Index: -40°C to 260°C (-40°F to 500°F)</p>	 <p>Type -235 Shown</p>

RSX replaces CSX.

Features:

- Low insertion force (1 oz. average per pin).
- Screw-machined terminals with multi-finger contacts for reliability.
- Closed bottom terminal for 100% anti-wicking of solder.
- Tapered entry for ease of insertion.
- Custom designs available.

Specifications:

Terminals:

Brass - Copper Alloy
(C36000) ASTM-B-16

Contacts:

Beryllium Copper
(C17200) ASTM-B-194

Solder Preform:

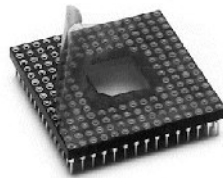
Standard: 63Sn/37Pb
Lead-free: 95.5Sn/4.0Ag/0.5Cu

Plating:

G - Gold over Nickel
M - Matte Tin over Nickel
T - Tin/Lead over Nickel

Gold per ASTM-B-488
Matte Tin per ASTM545-97
Tin/Lead per MIL-P-81728
Nickel per QQ-N-290

Options



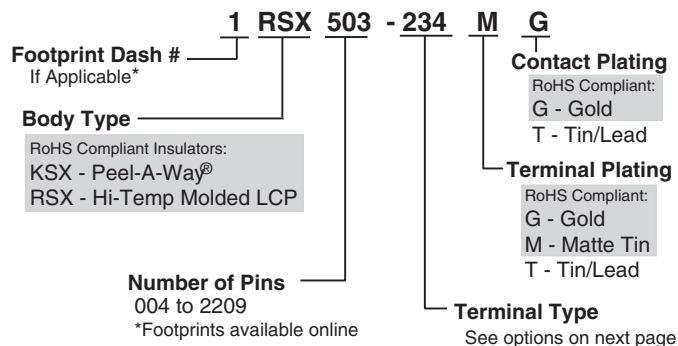
Tape Seal - add 3M to end of part number

- Removable tape seal protects plated contact in harsh environments
- Sealed socket will not allow dirt and other contaminants to enter socket chamber and become entrapped behind contact fingers
- Spray flux without contaminating contact area

Material

Silicone Backed Polyimide Film, -74°C to 260°C (-100°F to 500°F)
Intermittent to 371°C (700°F)

How To Order



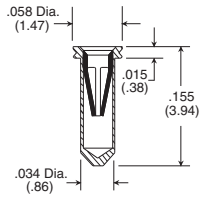
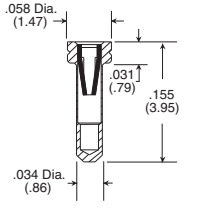
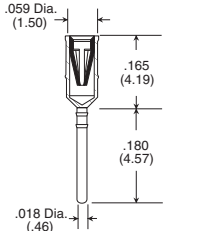
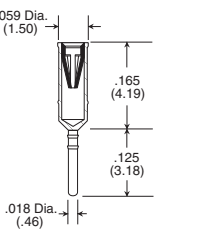
Note: Terminals plated with Matte Tin are available only with Gold plated contacts.

Interstitial PGA Sockets

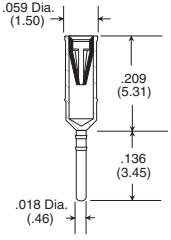
Low Insertion Force .100/(2.54mm) Staggered Grid

Additional standard and custom terminals available.
See Terminals section or consult factory.

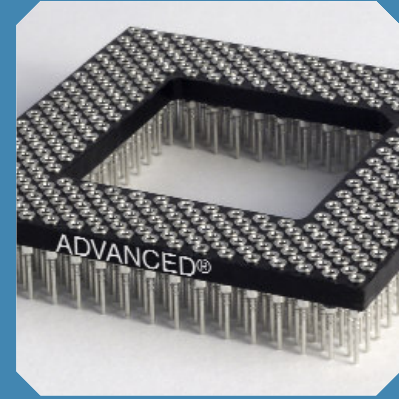
Standard Terminals

Type -210 Peel-A-Way® only	Type -176 Peel-A-Way® only	Type -234 Molded only	Type -82 Molded only
			

Type -235
Molded only
4 standoffs per socket
Type -234 used in remaining positions

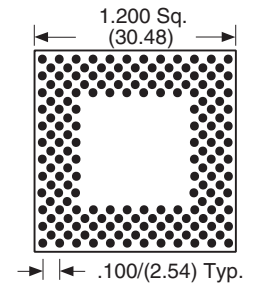


PGA Sockets



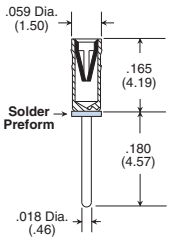
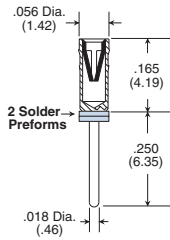
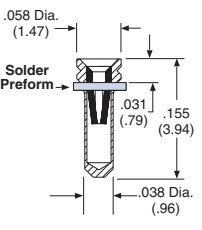
Footprints:

180 Pins
Footprint Number 180

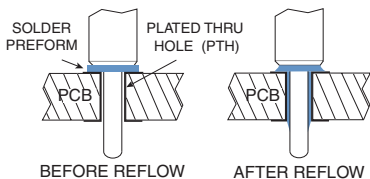
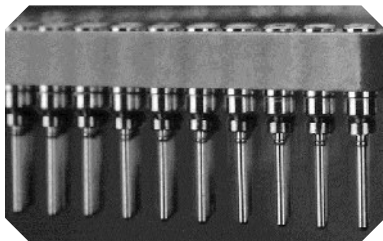


23 x 23 rows

Solder Preform Terminals

Tin/Lead: Type -311 Lead-free: Type -813	Tin/Lead: Type -313 Lead-free: Type -814	Tin/Lead: Type -432 Lead-free: Type -815
Molded only	Molded only	Peel-A-Way® only
		

Intrusive Reflow Application



Solder Preform Terminals

- Combines the labor of socket loading and solder application into one operation.
- Eliminates the use of solder paste and screening operation.
- Eliminates solder bridges and/or solder shorts due to excess solder.
- Ensures a reliable solder joint with controlled solder volume.
- Ideal for surface mount and mixed technology applications.
- For custom solder preform terminal applications consult factory.

- Full grid insulators loaded to your specific footprint.
- Open centers available upon request (consult factory).
- Hundreds of footprints available online.
- Use our online Build-A-Part feature or download a Footprints Booklet in PDF format.

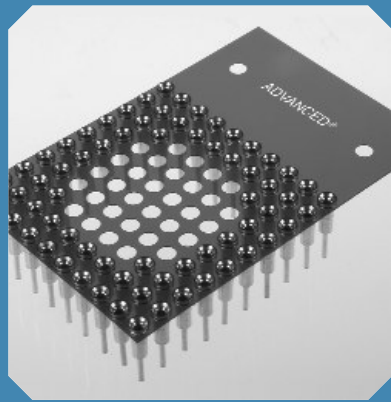
Available Online:

- Extraction Tools
- RoHS Qualification Test Report
- CAD Drawings



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Design Your Own PGA Socket



Advanced has complete design and manufacturing capabilities available for your PGA socket needs.

By answering the following questions we can manufacture a socket to accept your device.

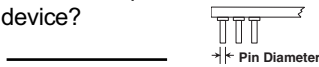
Copy this page and fill in the information required.
Fax to 401-823-8723.

Check insulator required.

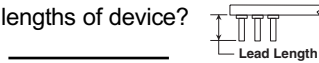
- High Temp. Molded LCP
- FR-4
- Peel-A-Way® Polyimide Film

Fill in the following information.

a. What is the pin diameter of device?

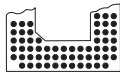


b. What is the min/max lead lengths of device?



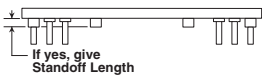
c. Keying chamfer required on socket?

- Yes No



d. Is there a standoff on device?

- Yes No



Standard Grid Design Your Own PGA Socket .100/(2.54mm) Pitch

Contact Information

Date: _____

Company Name: _____

Address: _____

City: _____ State: _____ ZIP: _____ Country: _____

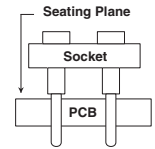
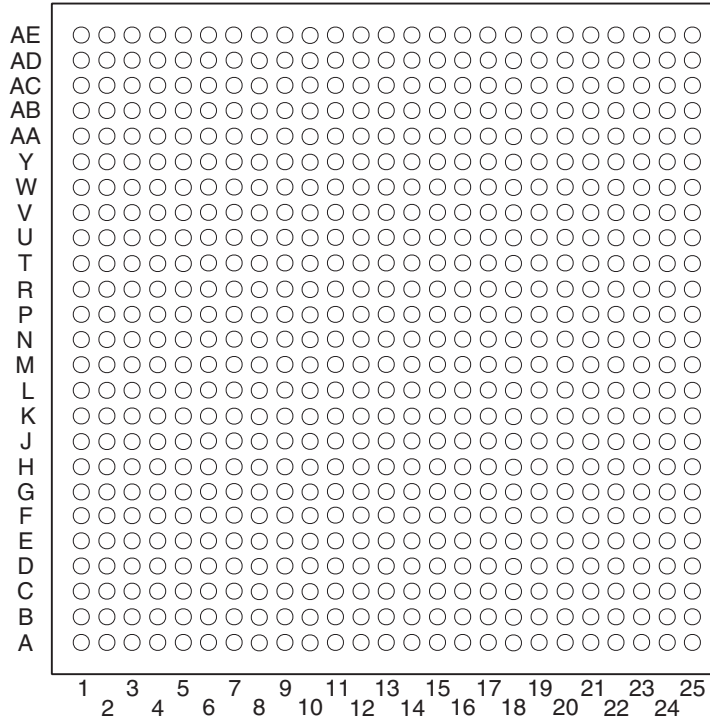
Specifier: _____ Title: _____

Phone: _____ Fax: _____

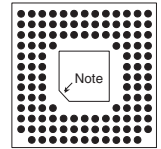
Email: _____ Pin Count: _____

Fill in Pin Location

(Fill in or submit device mechanical specifications.)



All sockets viewed looking toward seating plane of PCB and into female side of socket.



Note: Chamfer one corner for pin No. 1 location.

Circle Terminal Style Required

Additional standard and custom terminals available. See Terminals section or consult factory.

Type -210	Type -85	Type -51	Type -04
Peel-A-Way® only	Peel-A-Way® only		
Type -01	Type -33	Tin/Lead: Type -150	Lead-free: Type -811
Molded or FR-4 only	Peel-A-Way® only		



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Products shown covered by patents issued and/or pending. Specifications subject to change without notice.

inch/(mm)

Interstitial Grid Design Your Own PGA Socket

.100/(2.54mm) Pitch Staggered

Contact Information

Date: _____

Company Name: _____

Address: _____

City: _____ State: _____ ZIP: _____ Country: _____

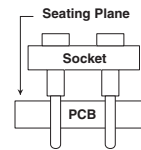
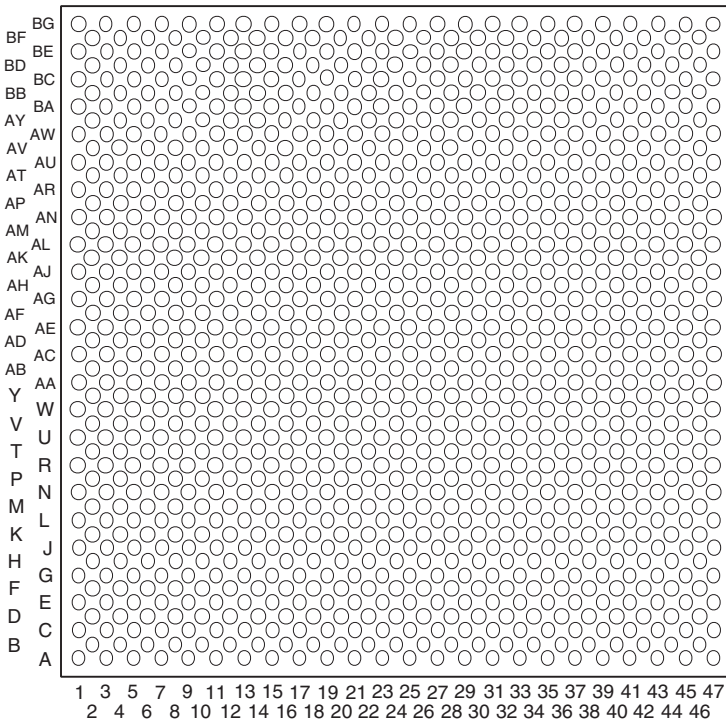
Specifier: _____ Title: _____

Phone: _____ Fax: _____

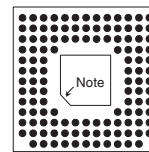
Email: _____ Pin Count: _____

Fill in Pin Location

(Fill in or submit device mechanical specifications.)

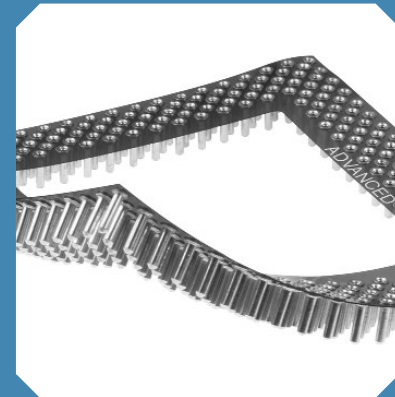


All sockets viewed looking toward seating plane of PCB and into female side of socket.



Note: Chamfer one corner for pin No. 1 location.

Design Your Own PGA Socket



Advanced has complete design and manufacturing capabilities available for your PGA socket needs.

By answering the following questions we can manufacture a socket to accept your device.

Copy this page and fill in the information required.
Fax to 401-823-8723.

Check insulator required.

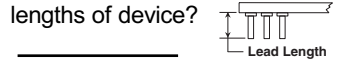
- High Temp. Molded LCP
- FR-4
- Peel-A-Way® Polyimide Film

Fill in the following information.

a. What is the pin diameter of device?

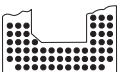


b. What is the min/max lead lengths of device?



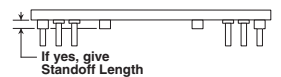
c. Keying chamfer required on socket?

- Yes No



d. Is there a standoff on device?

- Yes No



Circle Terminal Style Required

Additional standard and custom terminals available. See Terminals section or consult factory.

Type -210 Peel-A-Way® only	Type -234 Molded/FR-4	Tin/Lead: Type -313 Lead-free: Type -814 Molded/FR-4	Tin/Lead: Type -432 Lead-free: Type -815 Peel-A-Way® only
Tin/Lead: Type -311 Lead-free: Type -813 Molded/FR-4	Type -82 Molded/FR-4		

inch/(mm)

Products shown covered by patents issued and/or pending. Specifications subject to change without notice.



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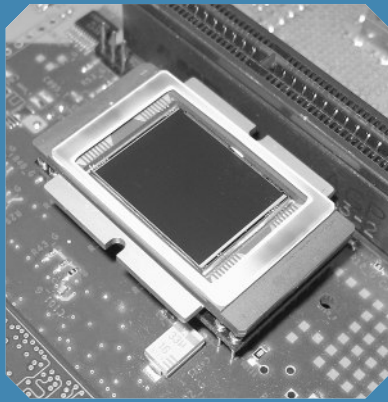


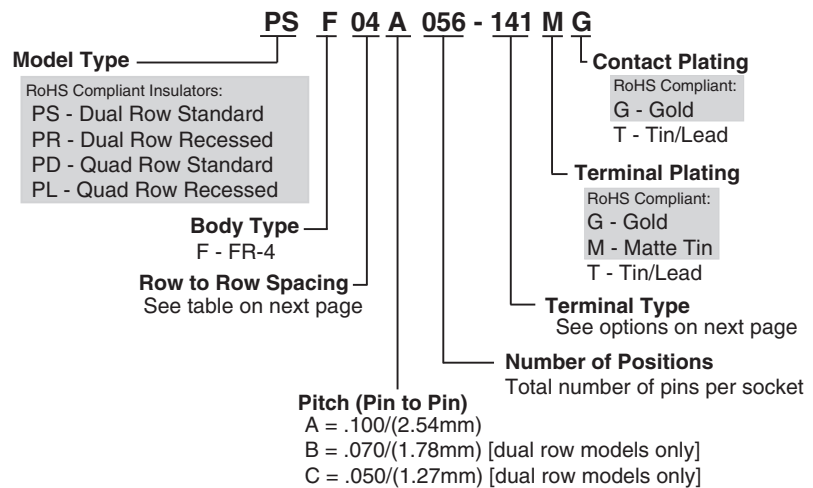
Table of Models

Standard Body		Recessed Body	
PS	PD	PR	PL
Dual Row	Quad Row	Dual Row	Quad Row
Footprint-Specific Sockets			
PC	PF		
Open (Cutout)	Full (Solid)		

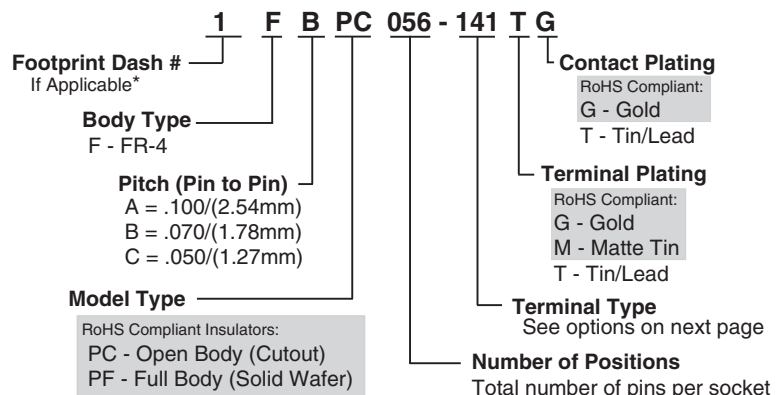
Shown above left with Kodak image sensor device, courtesy of Eastman Kodak Company, for demonstration purposes only.

How To Order

Dual Row and Quad Row Standard Sockets



Footprint-Specific Sockets



*Submit your device's mechanical specs and we will create a footprint number for you.

Products shown covered by patents issued and/or pending. Specifications subject to change without notice.



Features:

- Protect sensor performance by inserting after the reflow soldering process.
- Eliminate the chance for damage to valuable sensors during exposure to heat and errant solder flux on glass components.
- Reduce costs by eliminating the need for glass cleaning operations.

Specifications:

Terminals:

Brass - Copper Alloy
 (C36000) ASTM-B-16

Contacts:

Beryllium Copper
 (C17200) ASTM-B-194

Plating:

G - Gold over Nickel
 M - Matte Tin over Nickel
 T - Tin/Lead over Nickel

Body Material:

F: FR-4 Glass Epoxy,
 U.L. Rated 94V-0

Thermal Index:

-40°C to 140°C (-40°F to 284°F)

Gold per ASTM-B-488
 Matte Tin per ASTM545-97
 Tin/Lead per MIL-P-81728
 Nickel per QQ-N-290



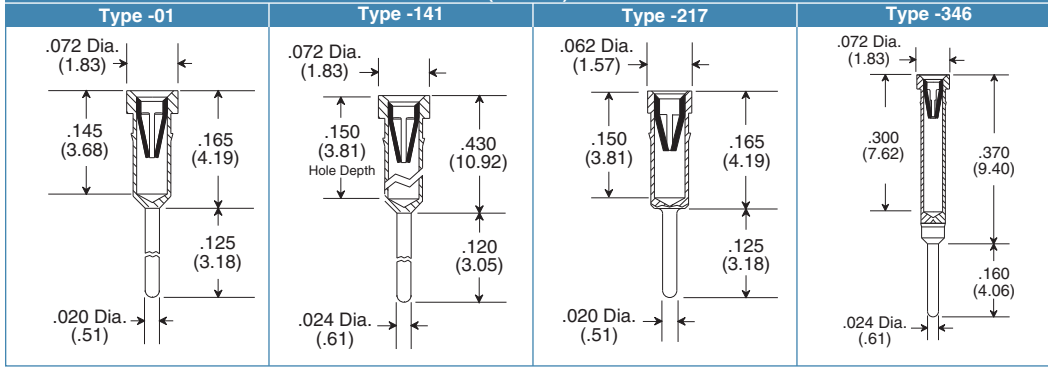
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inch/(mm)

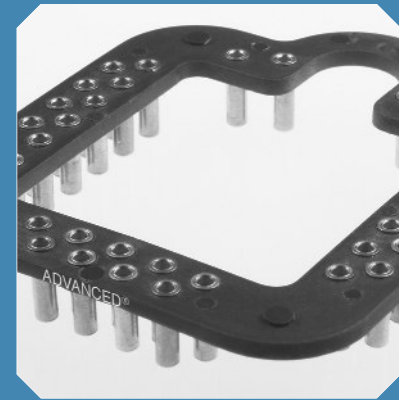
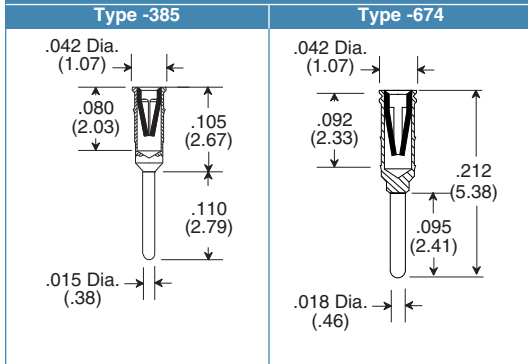
Additional standard and custom terminals available.
See Terminals section or consult factory.

Standard Terminals

.100/(2.54mm) Pitch



1.78mm and 1.27mm Pitch

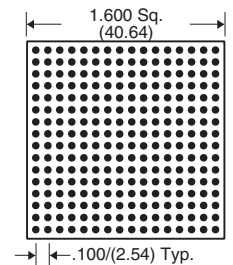


Custom Options:

- Molded insulators
- Peel-A-Way® Removable Terminal Carriers for low profile applications
- Low, medium and high insertion force contacts

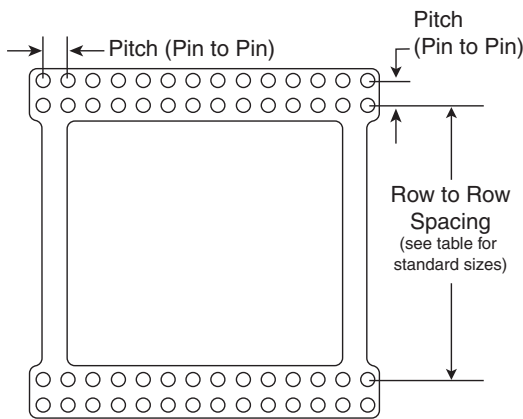
Footprints:

256 Pins
Footprint Number 256

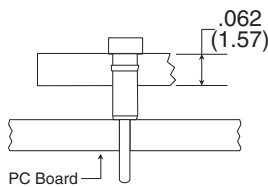


16 x 16 rows

Row to Row Spacing



Example Part Number: PLF18A056-141TG

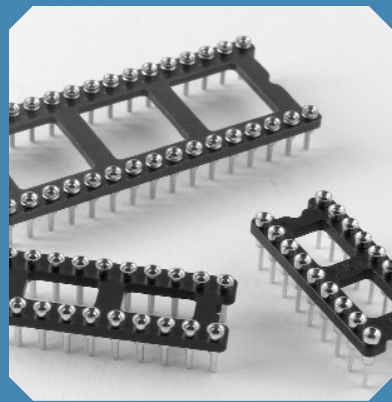


Code	inch	mm
01	0.300	7.62
02	0.400	10.16
03	0.450	11.43
04	0.600	15.24
05	0.610	15.49
06	0.700	17.78
07	0.800	20.32
08	0.802	20.37
09	0.880	22.35
10	0.900	22.86
11	0.910	23.11
12	1.005	25.53
13	1.010	25.65
14	1.200	30.48
15	1.300	33.02
16	1.320	33.53
17	1.400	35.56
18	1.410	35.81
19	1.520	38.61
20	1.700	43.18
21	1.800	45.72
22	2.000	50.80
23	2.010	51.05
24	2.600	66.04

- Virtually any footprint available.
- Submit your device's mechanical specs and we will create a footprint number for you.
- Fully customizable.



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Features:

- Multiple finger contact on all sockets assures maximum reliability.
- Tapered entry for ease of insertion.
- Closed bottom sleeve for 100% anti-wicking of solder.
- To fit .100/(2.54mm) pitch.
- Easily customized to fit your application.

Specifications:

Terminals:

Brass - Copper Alloy
(C36000) ASTM-B-16

Contacts:

Beryllium Copper - Copper Alloy
(C17200) ASTM-B-194

Solder Preform:

Standard: 63Sn/37Pb
Lead-free: 95.5Sn/4.0Ag/0.5Cu

Plating:

G - Gold over Nickel
M - Matte Tin over Nickel
T - Tin/Lead over Nickel

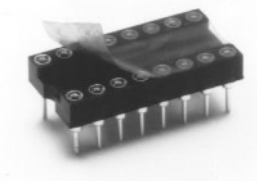
Gold per ASTM-B-488
Matte Tin per ASTM545-97
Tin/Lead per MIL-P-81728
Nickel per QQ-N-290

Table of Models

	<p>Description: Closed Frame Socket (RDS) Mat'l: High Temp. Liquid Crystal Polymer (LCP) Index: -40°C to 260°C (-40°F to 500°F)</p>	
	<p>Description: Open Frame Socket (RLS) Mat'l: High Temp. Liquid Crystal Polymer (LCP) Index: -40°C to 260°C (-40°F to 500°F)</p>	<p>*.100/(2.54) for 48 and 60 pos.</p>
	<p>Description: Peel-A-Way® Socket (KS) Material: Polyimide Film Index: -269°C to 400°C (-452°F to 752°F)</p> <p>For more information, refer to the Peel-A-Way® DIP Sockets pages (30-31).</p>	

RDS replaces DS and HDS.
RLS replaces LS and HLS.

Options



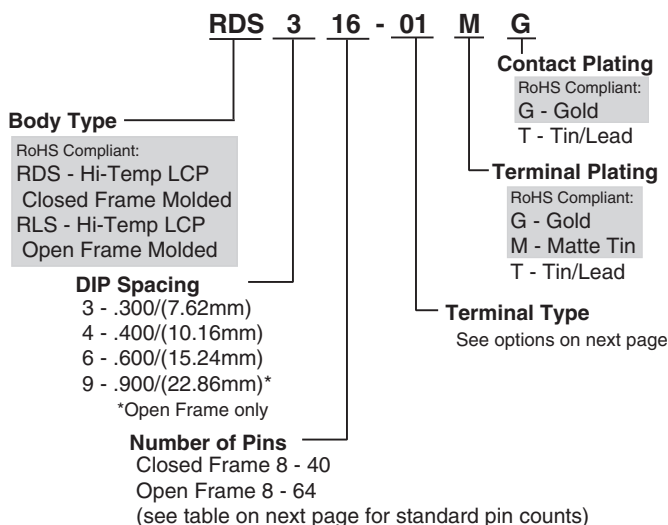
Tape Seal - add 3M to end of part number

- Removable tape seal protects plated contact in harsh environments
- Sealed socket will not allow dirt and other contaminants to enter socket chamber and become entrapped behind contact fingers
- Spray flux without contaminating contact area

Material

Silicone Backed Polyimide Film, -74°C to 260°C (-100°F to 500°F)
Intermittent to 371°C (700°F)

How To Order



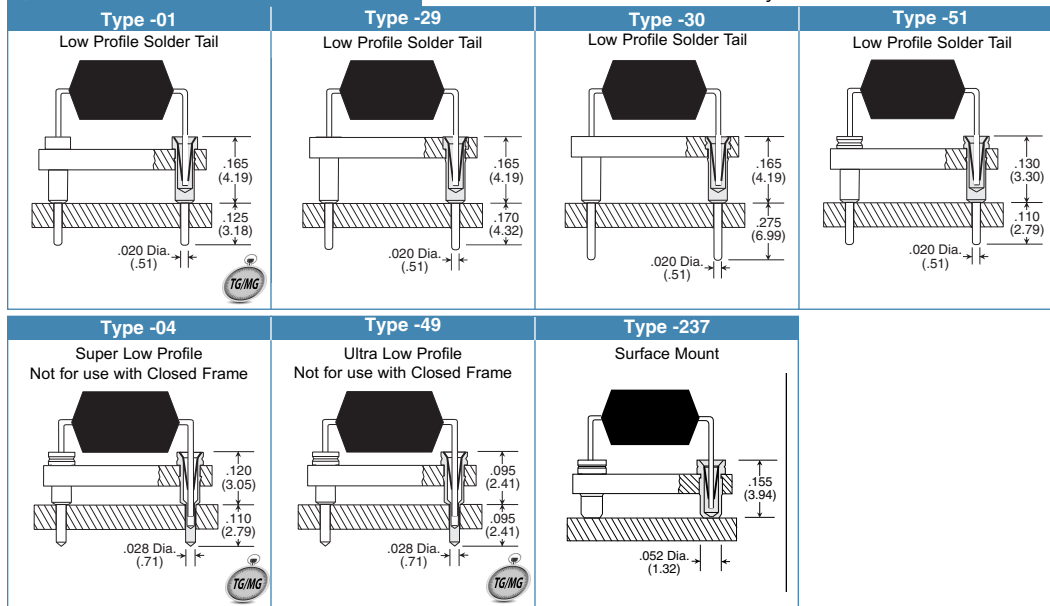
Note: Terminals plated with Matte Tin are available only with Gold plated contacts.

Molded DIP Sockets

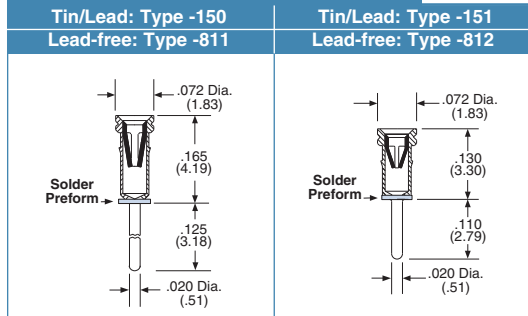
Closed Frame and Open Frame

Additional standard and custom terminals available.
See Terminals section or consult factory.

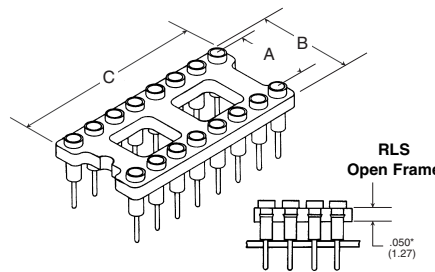
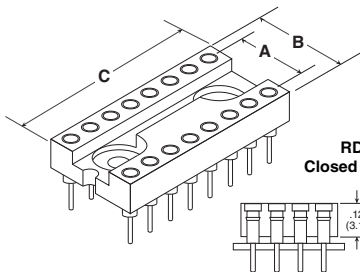
Standard Terminals



Solder Preform Terminals



Dimensional Information



# of Pins	A	B	C
8	.300 (7.62)	.400 (10.16)	.400 (10.16)
14	.300 (7.62)	.400 (10.16)	.700 (17.78)
16	.300 (7.62)	.400 (10.16)	.800 (20.32)
18	.300 (7.62)	.400 (10.16)	.900 (22.86)
20	.300 (7.62)	.400 (10.16)	1.000 (25.40)
22	.300 (7.62)	.400 (10.16)	1.100 (27.94)
24	.300 (7.62)	.400 (10.16)	1.200 (30.48)
28	.300 (7.62)	.400 (10.16)	1.400 (35.56)

# of Pins	A	B	C
22	.400 (10.16)	.500 (12.70)	1.100 (27.54)
24	.400 (10.16)	.500 (12.70)	1.200 (30.48)
24	.600 (15.24)	.700 (17.78)	1.200 (30.48)
28	.600 (15.24)	.700 (17.78)	1.400 (35.56)
32	.600 (15.24)	.700 (17.78)	1.600 (40.64)
40	.600 (15.24)	.700 (17.78)	2.000 (50.80)
48*	.600 (15.24)	.700 (17.78)	2.400 (60.96)
64*	.900 (22.86)	1.000 (25.40)	3.200 (81.28)

The dimensions in blue are for Open Frame only.

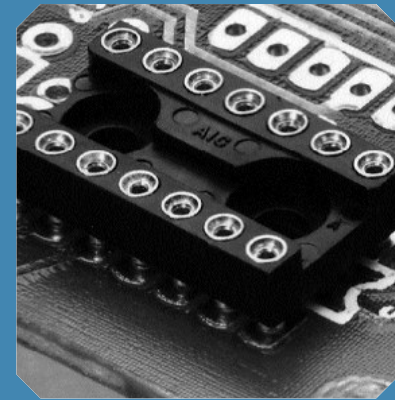
*Socket body thickness is .100/(2.54) for 48 and 64 positions.

= EXPRESS in RLS

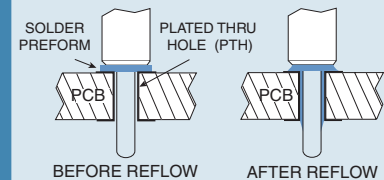
inch/(mm)

Products shown covered by patents issued and/or pending. Specifications subject to change without notice.

DIP Sockets



Intrusive Reflow Application:



- Combines the labor of socket loading and solder application into one operation.
- Eliminates the use of solder paste and screening operation.
- Eliminates solder bridges and/or solder shorts due to excess solder.
- Ensures a reliable solder joint with controlled solder volume.
- Ideal for surface mount and mixed technology applications.
- For custom solder preform terminal applications consult factory.

Available Online:

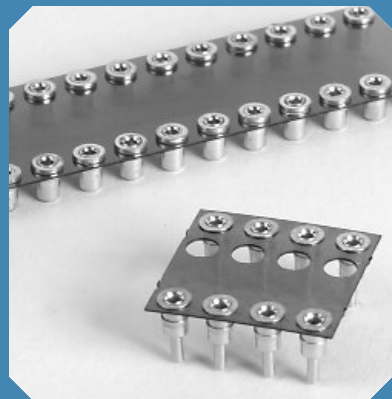
- RoHS Qualification Test Report
- CAD Drawings

EXPRESS Delivery

Terminals shown with the new EXPRESS symbol are available in most insulator body types with fast lead time. Some quantity and plating restrictions apply. Search our Distributor inventory online at www.advanced.com, or check with customer service for availability.



Infracor GmbH
Tel.: 089/158 126-0
www.infracor.de - info@infracor.de



Features:

- Peel away terminal carrier after soldering.
- Disposable carrier.
- Complete soldering visibility on both sides of PCB.
- Maximum air flow.
- Better flux rinse.
- No contact damage due to terminal carrier insertion.
- No contact pull out due to extraction of terminal carrier.

Specifications:

Terminals:

Brass - Copper Alloy
(C36000) ASTM-B-16

Contacts:

Beryllium Copper - Copper Alloy
(C17200) ASTM-B-194

Solder Preform:

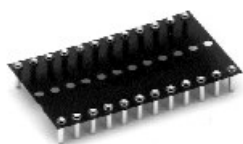
Standard: 63Sn/37Pb
Lead-free: 95.5Sn/4.0Ag/0.5Cu

Plating:

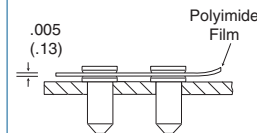
G - Gold over Nickel
M - Matte Tin over Nickel
T - Tin/Lead over Nickel

Gold per ASTM-B-488
Matte Tin per ASTM545-97
Tin/Lead per MIL-P-81728
Nickel per QQ-N-290

Table of Models

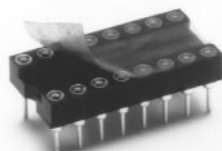


Description: Peel-A-Way® Socket (KS)
Material: Polyimide Film
Index: -269°C to 400°C (-452°F to 752°F)



For molded insulators, see pages 28-29.

Options



(shown here on molded socket)

Tape Seal - add 3M to end of part number

- Removable tape seal protects plated contact in harsh environments
- Sealed socket will not allow dirt and other contaminants to enter socket chamber and become entrapped behind contact fingers
- Spray flux without contaminating contact area

Material

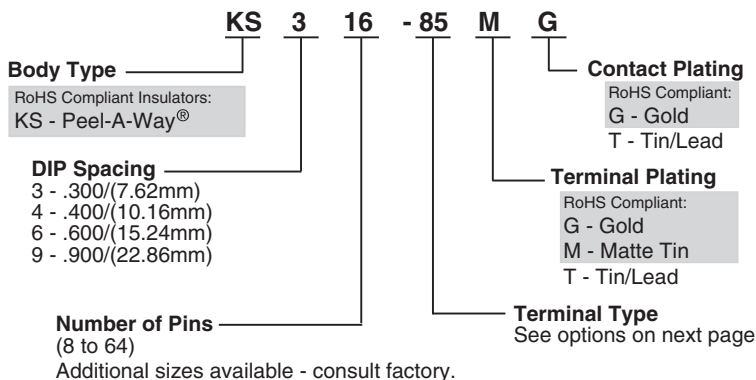
Silicone Backed Polyimide Film, -74°C to 260°C (-100°F to 500°F)
Intermittent to 371°C (700°F)

Solder Preform Terminals

See pg. 29 for intrusive reflow application.

Tin/Lead: Type -150 Lead-free: Type -811	Tin/Lead: Type -151 Lead-free: Type -812	Tin/Lead: Type -111 Lead-free: Type -810
<p>Diagram showing dimensions for Type -150: .072 Dia. (1.83), .165 (4.19), .125 (3.18), .020 Dia. (.51)</p>	<p>Diagram showing dimensions for Type -151: .072 Dia. (1.83), .130 (3.30), .110 (2.79), .020 Dia. (.51)</p>	<p>Peel-A-Way® only</p> <p>Diagram showing dimensions for Type -111: .058 Dia. (1.47), .031 (.79), .155 (3.94), .038 Dia. (.97)</p>

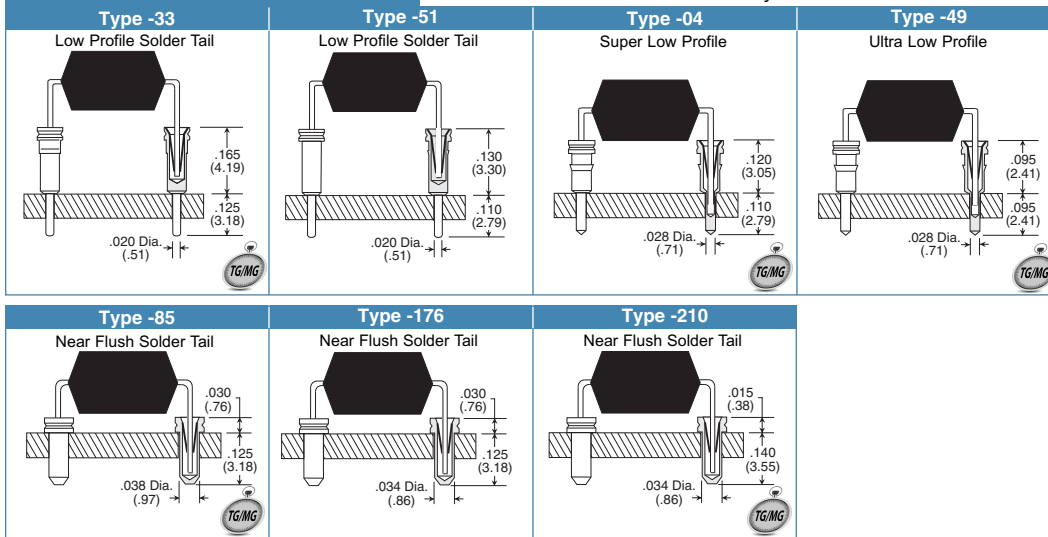
How To Order



Note: Terminals plated with Matte Tin are available only with Gold plated contacts.

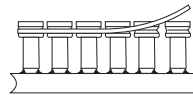
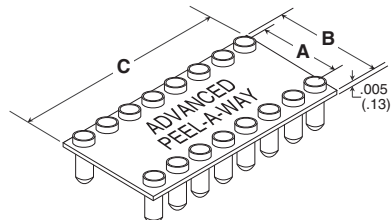
Additional standard and custom terminals available.
See Terminals section or consult factory.

Standard Terminals



Note: Terminals shown with insulator removed.

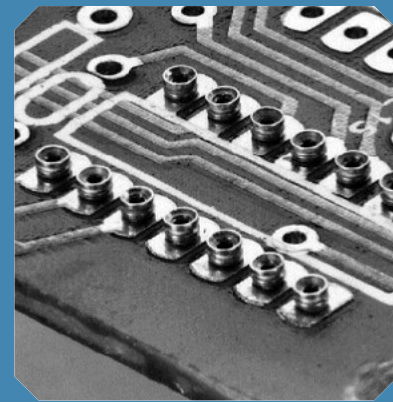
Dimensional Information



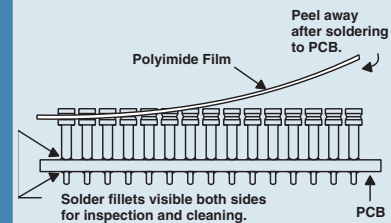
Surface Mount Options Available

# of Pins	A	B	C
8	.300 (7.62)	.400 (10.16)	.400 (10.16)
10	.300 (7.62)	.400 (10.16)	.500 (12.70)
12	.300 (7.62)	.400 (10.16)	.600 (15.24)
14	.300 (7.62)	.400 (10.16)	.700 (17.78)
16	.300 (7.62)	.400 (10.16)	.800 (20.32)
18	.300 (7.62)	.400 (10.16)	.900 (22.86)
20	.300 (7.62)	.400 (10.16)	1.000 (25.40)
22	.300 (7.62)	.400 (10.16)	1.100 (27.94)
24	.300 (7.62)	.400 (10.16)	1.200 (30.48)
28	.300 (7.62)	.400 (10.16)	1.400 (35.56)
40	.300 (7.62)	.400 (10.16)	2.000 (50.80)
16	.400 (10.16)	.500 (12.70)	.800 (20.32)
20	.400 (10.16)	.500 (12.70)	1.000 (25.40)
22	.400 (10.16)	.500 (12.70)	1.100 (27.94)
24	.400 (10.16)	.500 (12.70)	1.200 (30.48)
28	.400 (10.16)	.500 (12.70)	1.400 (35.56)
32	.400 (10.16)	.500 (12.70)	1.600 (40.64)

# of Pins	A	B	C
10	.600 (15.24)	.700 (17.76)	.500 (12.70)
18	.600 (15.24)	.700 (17.76)	.900 (22.86)
20	.600 (15.24)	.700 (17.76)	1.000 (25.40)
22	.600 (15.24)	.700 (17.76)	1.100 (27.94)
24	.600 (15.24)	.700 (17.76)	1.200 (30.48)
28	.600 (15.24)	.700 (17.76)	1.400 (35.56)
32	.600 (15.24)	.700 (17.76)	1.600 (40.64)
36	.600 (15.24)	.700 (17.76)	1.800 (45.72)
40	.600 (15.24)	.700 (17.76)	2.000 (50.80)
42	.600 (15.24)	.700 (17.76)	2.100 (53.34)
48	.600 (15.24)	.700 (17.76)	2.400 (60.96)
64	.600 (15.24)	.700 (17.76)	3.200 (81.28)
32	.900 (22.86)	1.000 (25.40)	1.600 (40.64)
36	.900 (22.86)	1.000 (25.40)	1.800 (45.72)
40	.900 (22.86)	1.000 (25.40)	2.000 (50.80)
52	.900 (22.86)	1.000 (25.40)	2.600 (66.04)
56	.900 (22.86)	1.000 (25.40)	2.800 (71.12)
64	.900 (22.86)	1.000 (25.40)	3.200 (81.28)



How To Use:



1. Place socket on PC board.
2. Send PC board and socket through soldering operation.
3. Peel away polyimide film carrier for complete solder joint visibility or leave in place for added stability.

Available Online:

- RoHS Qualification Test Report
- CAD Drawings

EXPRESS Delivery

Terminals shown with the new EXPRESS symbol are available in most insulator body types with fast lead time. Some quantity and plating restrictions apply. Search our Distributor inventory online at www.advanced.com, or check with customer service for availability.



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www.infracor.de - info@infracor.de

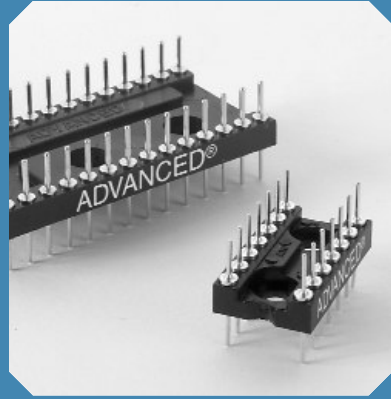
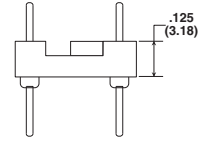


Table of Models

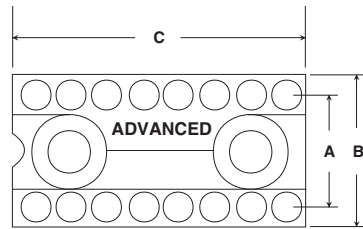


Description: Molded DIP Adapter (RDA)
Mat'l: High Temp. Liquid Crystal Polymer (LCP)
Index: -40°C to 260°C (-40°F to 500°F)

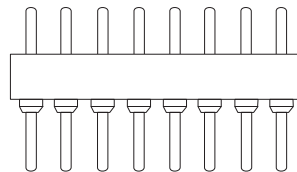


RDA replaces DA and HDA.

Dimensional Information



Terminal Type -09 Shown



# of Pins	A	B	C
8	.300 (7.62)	.400 (10.16)	.400 (10.16)
14	.300 (7.62)	.400 (10.16)	.700 (17.78)
16	.300 (7.62)	.400 (10.16)	.800 (20.32)
18	.300 (7.62)	.400 (10.16)	.900 (22.86)
20	.300 (7.62)	.400 (10.16)	1.000 (25.40)
22	.400 (10.16)	.500 (12.70)	1.100 (27.94)
24	.600 (15.24)	.700 (17.78)	1.200 (30.48)
28	.600 (15.24)	.700 (17.78)	1.400 (35.56)
40	.600 (15.24)	.700 (17.78)	2.000 (50.80)

Features:

- Low profile.
- Design allows for stacking on .100/(2.54mm) grid.
- Board to Board applicable.
- Easily customized to fit your applications.
- Mating sockets available in Open Frame or Closed Frame molded designs and Peel-A-Way® Removable Terminal Carriers.

Specifications:

Terminals:

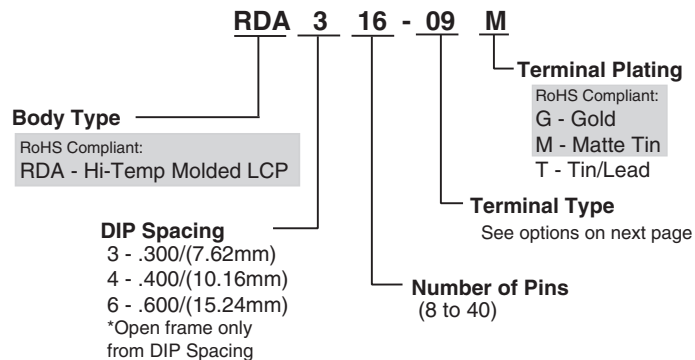
Brass - Copper Alloy
 (C36000) ASTM-B-16

Plating:

- G - Gold over Nickel
- M - Matte Tin over Nickel
- T - Tin/Lead over Nickel

Gold per ASTM-B-488
 Matte Tin per ASTM545-97
 Tin/Lead per MIL-P-81728
 Nickel per QQ-N-290

How To Order

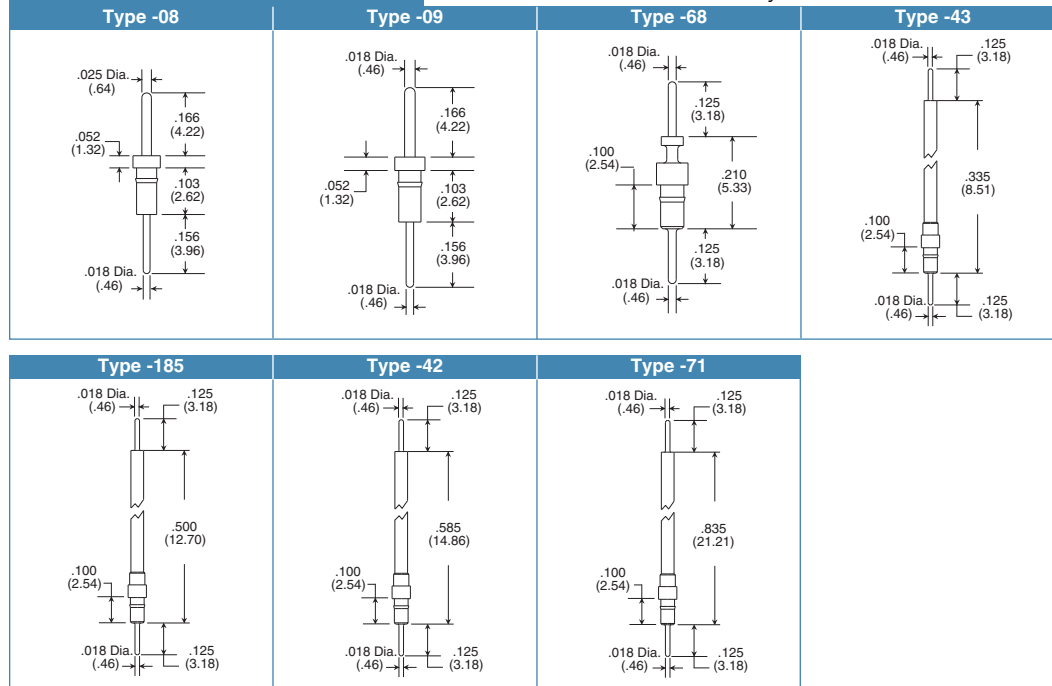


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Molded DIP Adapters Dual In-Line Adapters / Discrete Component Carriers

Additional standard and custom terminals available.
See Terminals section or consult factory.

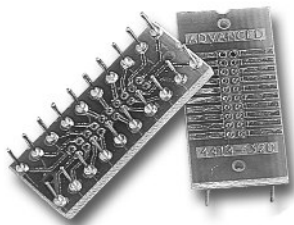
Standard Terminals



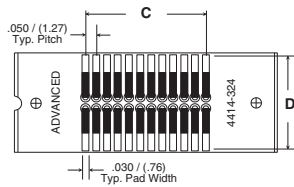
Package Conversion Applications

See page 58 for complete details.

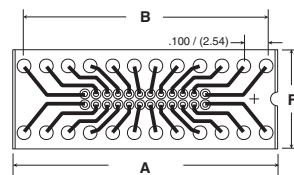
SOIC to DIP Adapters



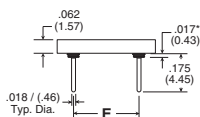
- Wide variety of package conversion adapters available including these standard SOIC to DIP adapters.
- Adapter allows present Gull Wing devices to be solderable or socketable in a thru-hole application.
- Pin spacing allows space for conductor runs on PCB.
- Saves space (X, Y & Z) when used with Advanced sockets.
- Radius ends of adapter pins to improve socketing.
- Allows testing with standard test clips.
- See page 58 for complete details.



Top View



Bottom View



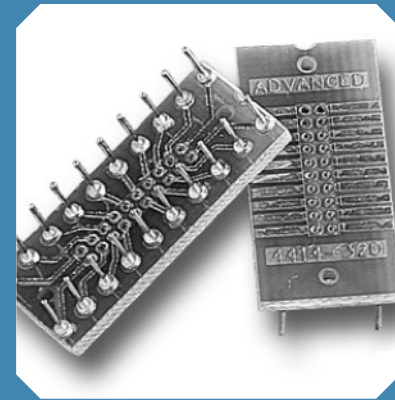
Side View



Standard Part Numbers	Lead-free Part Numbers	# of Pins
4414-308	4414-308LF	8
4414-314	4414-314LF	14
4414-316	4414-316LF	16
4414-320	4414-320LF	20
4414-324	4414-324LF	24
4414-328	4414-328LF*	28
4414-628*	4414-628LF*	28
4414-632*	4414-632LF*	32

* Consult factory for availability.

DIP Adapters



Available Online:

- RoHS Qualification Test Report
- CAD Drawings



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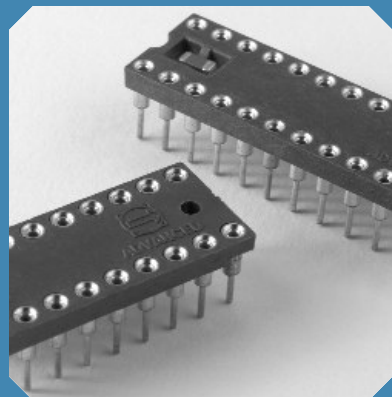
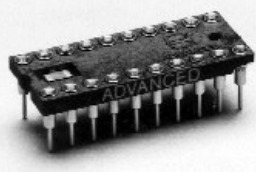
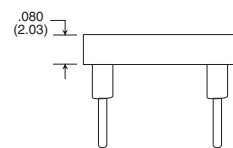


Table of Models



Description: Decoupling Capacitor Socket (MDC)
Material: High Temperature Glass Filled Thermoplastic* U.L. Rated 94V-0
Index: -60°C to 260°C (-76°F to 500°F)



*Note: This product is not RoHS Compliant.

Features:

- Quietest decoupling capacitor socket available.
- Insert molded circuit with committed voltage and ground terminals.
- .014/(.36mm) thick copper circuit offers excellent electrical and thermal conductivity.
- Standard decoupling capacitor values of .01µf, .1µf and .33µf. Other capacitor values available to suit your electrical requirements.
- Mounted height above PCB of .165/(4.19mm).
- Test report available upon request.

Specifications:

Terminals and Contacts:

Terminal: Brass - Copper Alloy (C36000) ASTM-B-16
Contact: Beryllium Copper - Copper Alloy (C17200) ASTM-B-194
Circuit: Copper

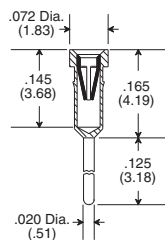
Plating:

Terminal: G - Gold over Nickel
 T - Tin/Lead over Nickel
Contact: G - Gold over Nickel
 T - Tin/Lead over Nickel
Circuit: Tin/Lead*

Gold per ASTM-B-488
 Tin/Lead per MIL-P-81728
 Nickel per QQ-N-290

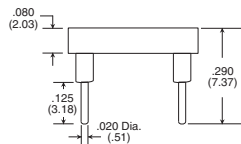
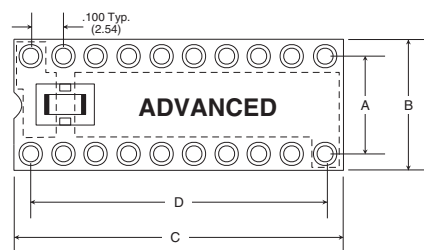
Standard Terminals

Type -01
 Low Profile

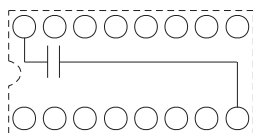


Additional standard and custom terminals available. See Terminals section or consult factory.

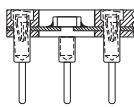
Dimensional Information



Terminal Type -01 Shown



Electrical Schematic



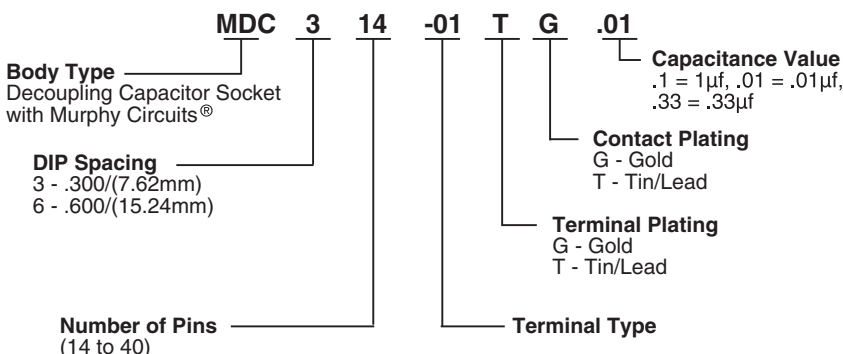
Sectional View of Capacitor

# of Pins	A	B	C	D
14	.300 (7.62)	.400 (10.16)	.700 (17.78)	.600 (15.24)
16	.300 (7.62)	.400 (10.16)	.800 (20.32)	.700 (17.78)
20	.300 (7.62)	.400 (10.16)	1.000 (25.40)	.900 (22.86)
22	.300 (7.62)	.400 (10.16)	1.100 (27.94)	1.000 (25.40)
24	.300 (7.62)	.400 (10.16)	1.200 (30.48)	1.100 (27.94)
24	.600 (15.24)	.700 (17.78)	1.200 (30.48)	1.100 (27.94)
28	.600 (15.24)	.700 (17.78)	1.400 (35.56)	1.300 (33.02)
40	.600 (15.24)	.700 (17.78)	2.000 (50.80)	1.900 (48.26)

Available Online

- Design your own Decoupling Capacitor DIP Socket
- Decoupling Capacitor Socket Effectiveness Study

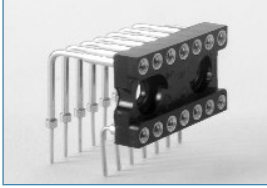
How To Order



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 Tel.: 089/158 126-0
 www.infracron.de · info@infracron.de

Closed Frame LED Sockets (Light Emitting Diode)

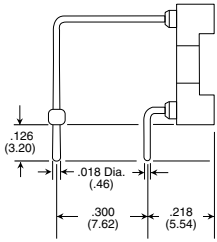
Table of Models



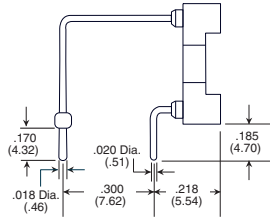
Description: Closed Frame LED Sockets (RDL)
Material: High Temp. Liquid Crystal Polymer (LCP)
Index: -40°C to 260°C (-40°F to 500°F)

Standard Terminals

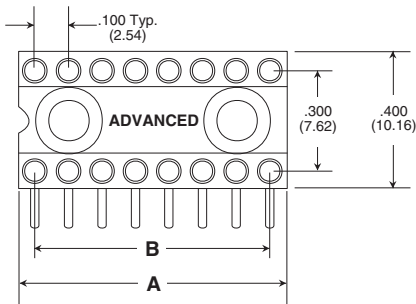
Type -370



Type -31



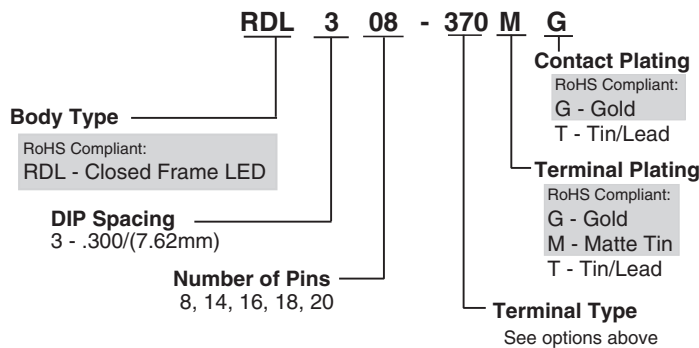
Dimensional Information



Part Number	# of Pins	A	B
RDL308-XXXMG	8	.395 (10.03)	.300 (7.62)
RDL314-XXXMG	14	.695 (17.65)	.600 (15.24)
RDL316-XXXMG	16	.795 (20.19)	.700 (17.78)
RDL318-XXXMG	18	.895 (22.73)	.800 (20.32)
RDL320-XXXMG	20	.995 (25.27)	.900 (22.86)

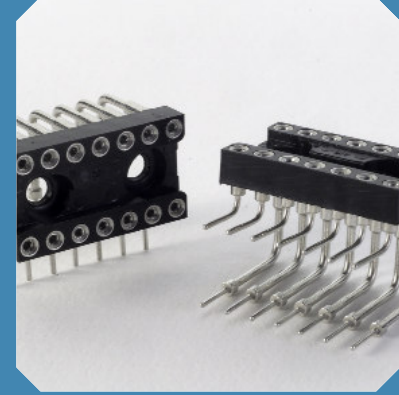
XXX denotes terminal type

How To Order



Note: Terminals plated with Matte Tin are available only with Gold plated contacts.

DIP Sockets



Features:

- Right angle design allows readable position of LED on PCB.
- Multiple finger contact for reliability.
- Tapered entry for ease of insertion.
- Closed bottom sleeve for 100% anti-wicking of solder.

Specifications:

Terminals:

Brass - Copper Alloy
(C36000) ASTM-B-16

Contacts:

Beryllium Copper
(C17200) ASTM-B-194

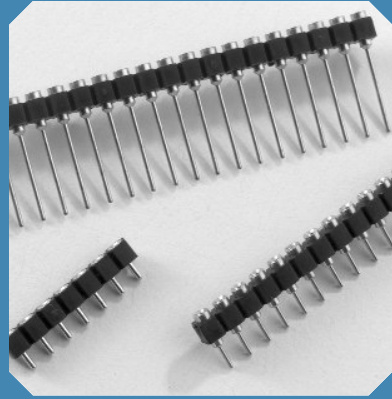
Plating:

G - Gold over Nickel
M - Matte Tin over Nickel
T - Tin/Lead over Nickel

Gold per ASTM-B-488
Matte Tin per ASTM545-97
Tin/Lead per MIL-P-81728
Nickel per QQ-N-290



Infracor GmbH
Tel.: 089/158 126-0
www.infracor.de · info@infracor.de



Features:

- Available in three body types: Peel-A-Way® Removable Terminal Carriers, molded Solid Strips, and molded Snap Strips [breakable at .100/(2.54mm)].
- Tapered entry for ease of insertion.
- Multi-finger contacts for reliability.
- Closed bottom sleeve for 100% anti-wicking of solder.
- Custom configurations available.

Specifications:

Terminals:

Brass - Copper Alloy
(C36000) ASTM-B-16

Contacts:

Beryllium Copper
(C17200) ASTM-B-194

Solder Preform:

Standard: 63Sn/37Pb
Lead-free: 95.5Sn/4.0Ag/0.5Cu

Plating:

G - Gold over Nickel
M - Matte Tin over Nickel
T - Tin/Lead over Nickel

Gold per ASTM-B-488
Matte Tin per ASTM545-97
Tin/Lead per MIL-P-81728
Nickel per QQ-N-290



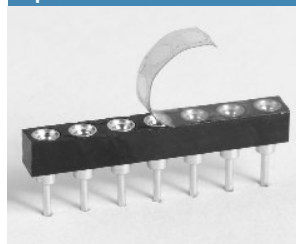
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Tel.: 089/158 126-0
www.infracron.de info@infracron.de

Table of Models

	<p>Description: Peel-A-Way® Strips (KSS) Material: Polyimide Film Index: -269°C to 400°C (-452°F to 752°F)</p>	
	<p>Description: Molded Snap Strips (HSS/HLSS) Mat'l: Glass Filled Thermoplastic (PPS) Index: -60°C to 220°C (-76°F to 428°F)</p>	
	<p>Description: Molded Solid Strips (RNB, RLNB) Mat'l: High Temp. Liquid Crystal Polymer (LCP) Index: -40°C to 260°C (-40°F to 500°F)</p>	

HSS/HLSS replaces RSS/RLSS and SS/LSS. RNB/RLNB replaces HNB/HLNB and NB/LNB.

Options

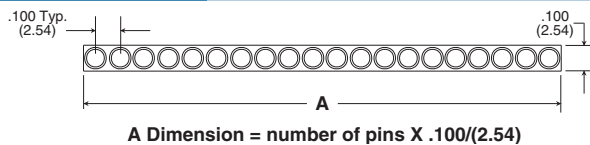


Tape Seal - add 3M to end of part number

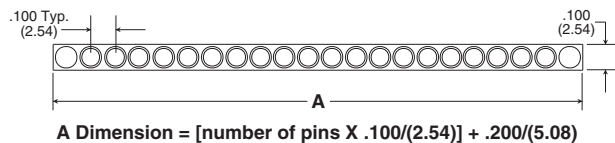
- Removable tape seal protects plated contact in harsh environments.
- Sealed socket will not allow dirt and other contaminants to enter socket chamber and become entrapped behind contact fingers.
- Spray flux without contaminating contact area.
- Material - Silicone Backed Polyimide Film, -74°C to 260°C (-100°F to 500°F) Intermittent to 371°C (700°F)

Dimensional Information

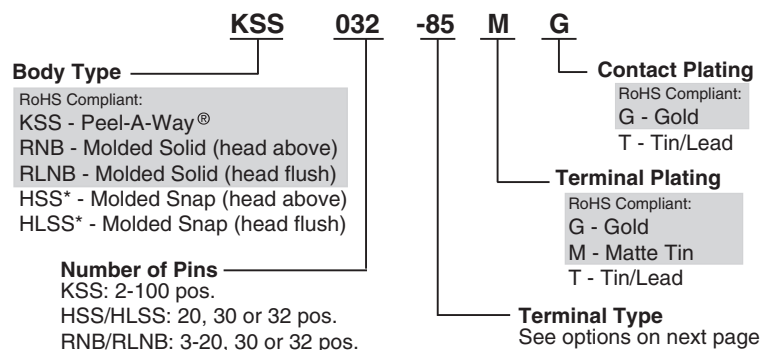
Molded Body Types



Peel-A-Way® Body Types



How To Order



*PSS Insulators (HSS/HLSS) are not suitable for high temperature, lead-free (RoHS) solder profiles.
Note: Terminals plated with Matte Tin are available only with Gold plated contacts.

Products shown covered by patents issued and/or pending. Specifications subject to change without notice.

inch/(mm)

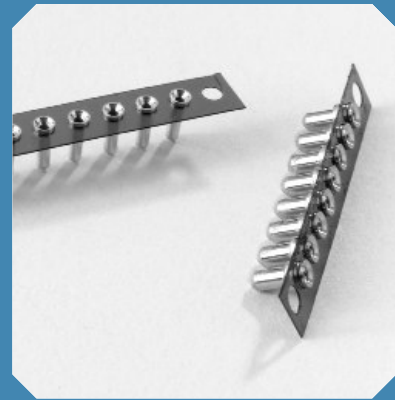
SIP Sockets

Molded and Peel-A-Way® Insulators

Additional standard and custom terminals available.
See Terminals section or consult factory.

Standard Terminals	
Type -51 	Type -04
Type -33 Peel-A-Way® only 	Type -85 Peel-A-Way® only
Type -49 Not for use with HSS or RNB. 	Type -176 Peel-A-Way® only
Type -01 Molded only 	Type -210 Peel-A-Way® only

SIP Sockets



Available Online:

- RoHS Qualification Test Report
- CAD Drawings

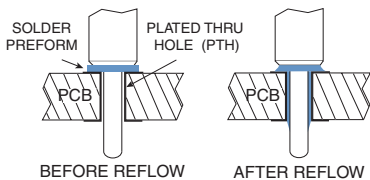
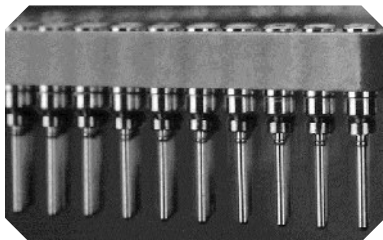
EXPRESS Delivery

Terminals shown with the new EXPRESS symbol are available in most insulator body types with fast lead time. Some quantity and plating restrictions apply. Search our Distributor inventory online at www.advanced.com, or check with customer service for availability.

Solder Preform Terminals

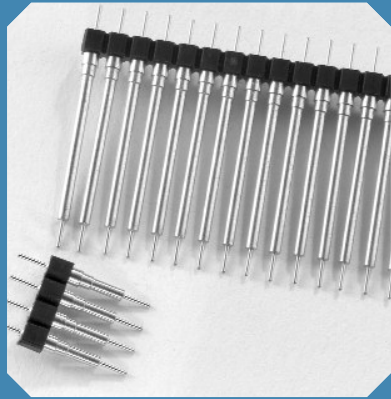
Tin/Lead: Type -150 Lead-free: Type -811	Tin/Lead: Type -151 Lead-free: Type -812	Tin/Lead: Type -111 Lead-free: Type -810
		Peel-A-Way® only

Intrusive Reflow Application



Solder Preform Terminals

- Combines the labor of socket loading and solder application into one operation.
- Eliminates the use of solder paste and screening operation.
- Eliminates solder bridges and/or solder shorts due to excess solder.
- Ensures a reliable solder joint with controlled solder volume.
- Ideal for surface mount and mixed technology applications.
- For custom solder preform terminal applications consult factory.



Features:

- Available in three body types: Peel-A-Way® Removable Terminal Carriers, molded Solid Strips, and molded Snap Strips [breakable at .100/(2.54mm)].
- Board to board applications.
- Peel-A-Way® Removable Terminal Carrier can be easily removed to allow inspection of solder joints on both sides of PC board, or left in place for added stability.
- Custom designs available.

Specifications:

Terminals:


Brass - Copper Alloy
(C36000) ASTM-B-16

Plating:

G - Gold over Nickel
M - Matte Tin over Nickel
T - Tin/Lead over Nickel

Gold per ASTM-B-488
Matte Tin per ASTM545-97
Tin/Lead per MIL-P-81728
Nickel per QQ-N-290

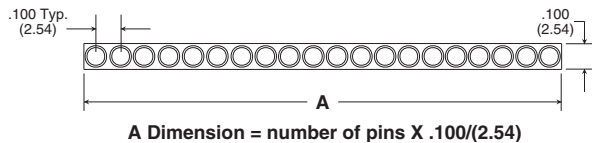
Table of Models

	<p>Description: Peel-A-Way® Strips (KSA) Material: Polyimide Film Index: -269°C to 400°C (-452°F to 752°F)</p> 	
	<p>Description: Molded Snap Strips (HSA) Mat'l: Glass Filled Thermoplastic (PPS) Index: -60°C to 220°C (-76°F to 428°F)</p>	
	<p>Description: Molded Solid Strips (RNA) Mat'l: High Temp. Liquid Crystal Polymer (LCP) Index: -40°C to 260°C (-40°F to 500°F)</p>	

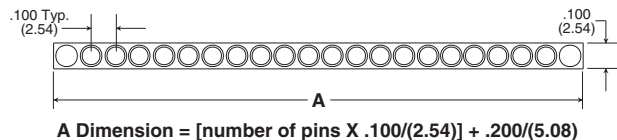
HSA replaces RSA and SA, RNA replaces NA and HNA.

Dimensional Information

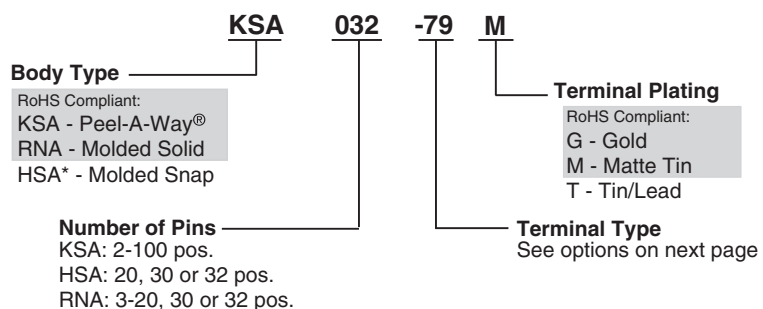
Molded Body Types



Peel-A-Way® Body Types



How To Order



*PSS Insulators (HSA) are not suitable for high temperature, lead-free (RoHS) solder profiles.



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Products shown covered by patents issued and/or pending. Specifications subject to change without notice.

inch/(mm)

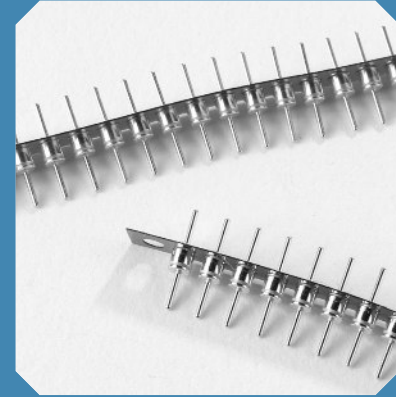
SIP Adapters Molded and Peel-A-Way® Insulators

Additional standard and custom terminals available.
See Terminals section or consult factory.

Standard Terminals

<p>Type -79 Peel-A-Way® only</p>	<p>Type -80 Peel-A-Way® only</p>	<p>Type -81 Peel-A-Way® only</p>	<p>Type -574 Peel-A-Way® only</p>
<p>Type -08 Molded only</p>	<p>Type -09 Molded only</p>	<p>Type -68 Molded only</p>	<p>Type -43 Molded only</p>
<p>Type -185 Molded only</p>	<p>Type -42 Molded only</p>	<p>Type -71 Molded only</p>	

SIP Adapters



Available Online:

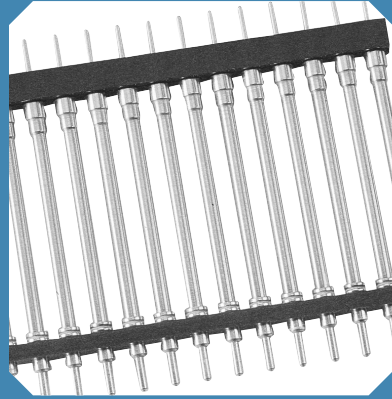
- RoHS Qualification Test Report
- CAD Drawings

EXPRESS Delivery



Terminals shown with the new EXPRESS symbol are available in most insulator body types with fast lead time. Some quantity and plating restrictions apply. Search our Distributor inventory online at www.advanced.com, or check with customer service for availability.

Board to Board Connectors



Features:

- Male and female connectors are designed in mating pairs.
- .100/(2.54mm) row to row pitch.
- High reliability screw-machined terminals with closed-end construction for 100% anti-wicking of solder.
- For surface mount options, consult factory.
- Reliable mechanical support.
- Custom configurations available.

Specifications:

Terminals:

Brass - Copper Alloy
(C36000) ASTM-B-16

Contacts:

Beryllium Copper
(C17200) ASTM-B-194



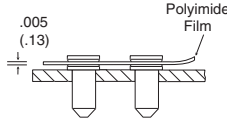

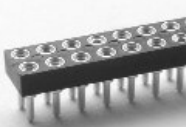
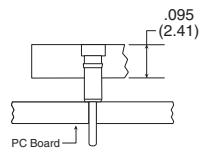


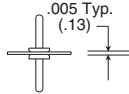

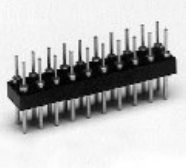
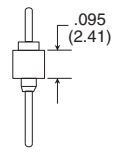
Plating:

G - Gold over Nickel
M - Matte Tin over Nickel
T - Tin/Lead over Nickel

Gold per ASTM-B-488
Matte Tin per ASTM545-97
Tin/Lead per MIL-P-81728
Nickel per QQ-N-290

.100/(2.54mm) Pitch Board to Board Connectors Molded and Peel-A-Way® Insulators

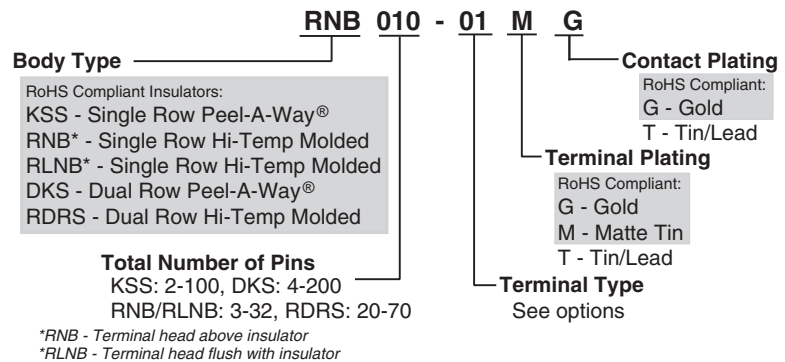
Table of Models

	Single Row	Dual Row		
Female	 KSS	 DKS	Description: Peel-A-Way® (KSS, DKS) Material: Polyimide Film Index: -269°C to 400°C (-452°F to 752°F)	
	 RNB/ RLNB	 RDRS	Desc: Molded (RNB, RLNB, RDRS) Material: High Temp. Liquid Crystal Polymer (LCP) Index: -40°C to 260°C (-40°F to 500°F)	
Male	 KSA	 DKA	Description: Peel-A-Way® (KSA, DKA) Material: Polyimide Film Index: -269°C to 400°C (-452°F to 752°F)	
	 RNA	 RDRA	Description: Molded (RNA, RDRA) Material: High Temp. Liquid Crystal Polymer (LCP) Index: -40°C to 260°C (-40°F to 500°F)	

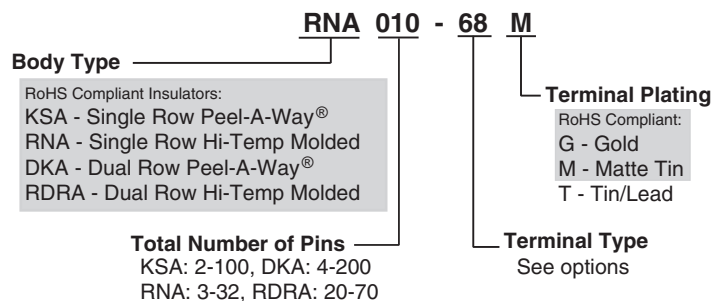
RNB/RLNB replaces HNB/HLNB and NB/LNB. RDRS replaces HDRS and DRS.
RNA replaces HNA and NA. RDRA replaces HDRA and DRA.

How To Order

Female



Male



Note: Terminals plated with Matte Tin are available only with Gold plated contacts.

Products shown covered by patents issued and/or pending. Specifications subject to change without notice.

inch/(mm)



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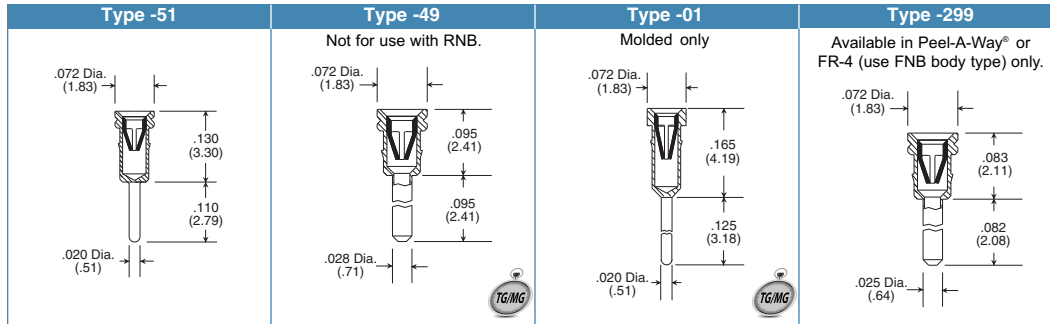
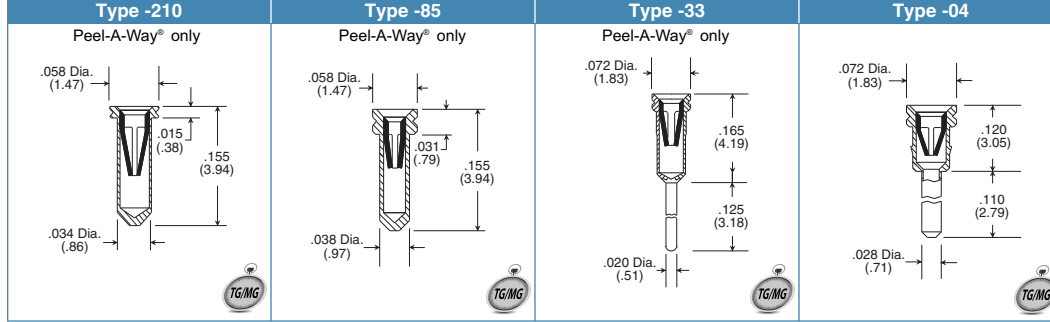
.100/(2.54mm) Pitch Board to Board Connectors

Molded and Peel-A-Way® Insulators

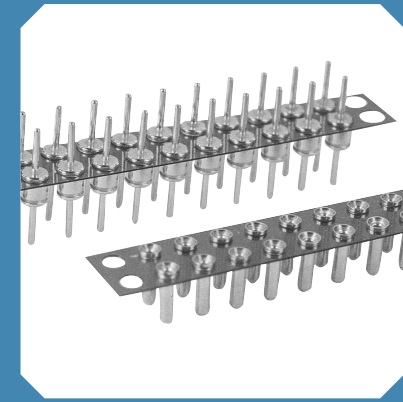
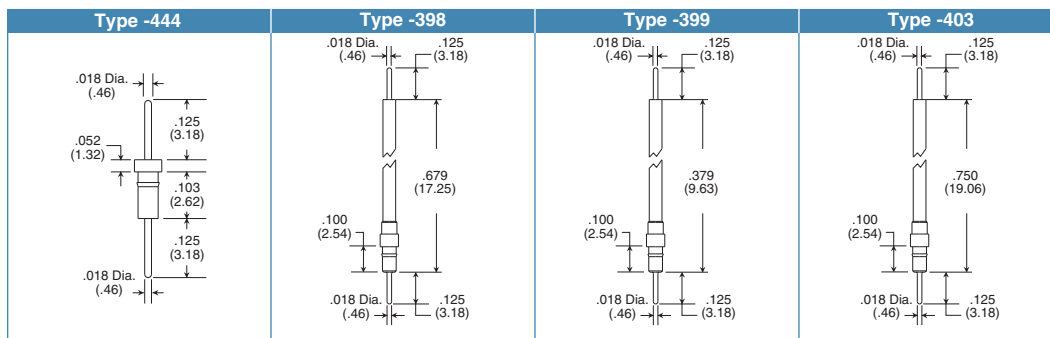
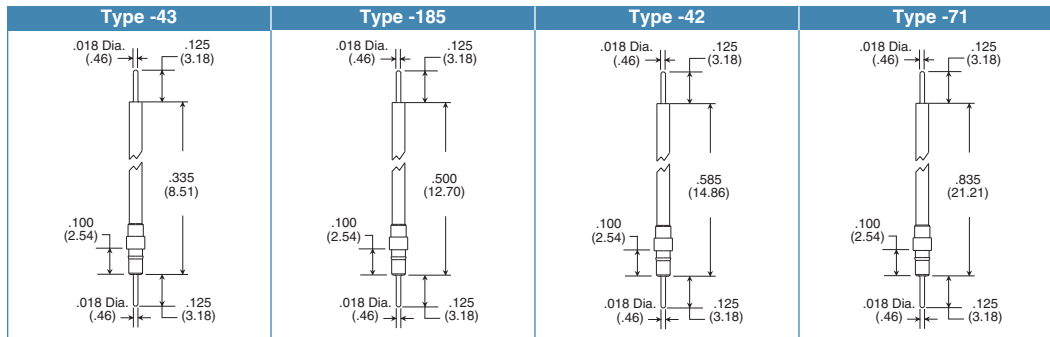
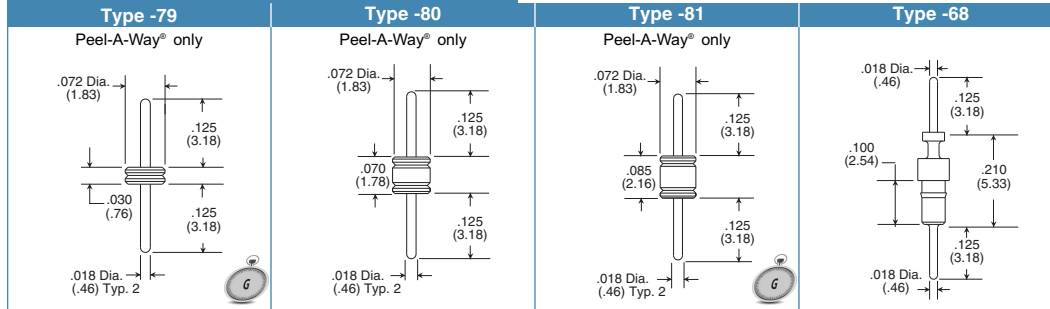
Board to Board Connectors

Standard Female Terminals

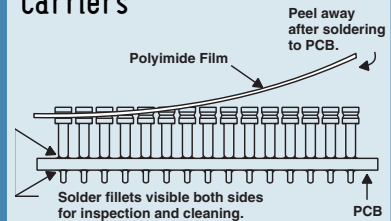
Additional standard and custom terminals available.
See Terminals section or consult factory.



Standard Male Terminals



Peel-A-Way® Removable Carriers



1. Place socket on PC board.
2. Send PC board and socket through soldering operation.
3. Peel away polyimide film carrier for complete solder joint visibility or leave in place for added stability.

Available Online:

- RoHS Qualification Test Report

See following pages for typical board to board spacing configuration and additional dimensional information.

EXPRESS Delivery



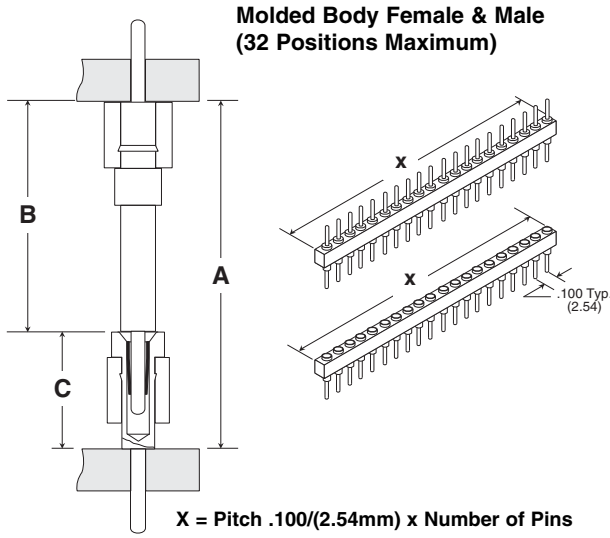
Terminals shown with the new EXPRESS symbol are available in most insulator body types with fast lead time. Some quantity and plating restrictions apply. Search our Distributor inventory online at www.advanced.com, or check with customer service for availability.



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Dimensional Information

Order one each Male & Female to get the required "A" dim.



B	C	A	Male Part #	Female Part #
.155/(3.94)	.083/(2.11)	.238/(6.05)	RNA020-444G	FNB020-299MG
.155/(3.94)	.095/(2.41)	.250/(6.35)	RNA020-444G	RLNB020-49MG
.155/(3.94)	.120/(3.05)	.275/(6.99)	RNA020-444G	RLNB020-04MG
.155/(3.94)	.130/(3.30)	.285/(7.24)	RNA020-444G	RNB020-51MG
.210/(5.33)	.083/(2.11)	.293/(7.44)	RNA020-68G	FNB020-299MG
.210/(5.33)	.095/(2.41)	.305/(7.74)	RNA020-68G	RLNB020-49MG
.155/(3.94)	.165/(4.19)	.320/(8.13)	RNA020-444G	RNB020-01MG
.210/(5.33)	.120/(3.05)	.330/(8.37)	RNA020-68G	RLNB020-04MG
.210/(5.33)	.130/(3.30)	.340/(8.63)	RNA020-68G	RNB020-51MG
.210/(5.33)	.165/(4.19)	.375/(9.52)	RNA020-68G	RNB020-01MG
.335/(8.51)	.083/(2.11)	.418/(10.62)	RNA020-43G	FNB020-299MG
.335/(8.51)	.095/(2.41)	.430/(10.92)	RNA020-43G	RLNB020-49MG
.335/(8.51)	.120/(3.05)	.455/(11.56)	RNA020-43G	RLNB020-04MG
.379/(9.63)	.083/(2.11)	.462/(11.74)	RNA020-399G	FNB020-299MG
.335/(8.51)	.130/(3.30)	.465/(11.81)	RNA020-43G	RNB020-51MG
.379/(9.63)	.095/(2.41)	.474/(12.04)	RNA020-399G	RLNB020-49MG
.379/(9.63)	.120/(3.05)	.499/(12.68)	RNA020-399G	RLNB020-04MG
.335/(8.51)	.165/(4.19)	.500/(12.70)	RNA020-48G	RNB020-01MG
.379/(9.63)	.130/(3.30)	.509/(12.93)	RNA020-399G	RNB020-51MG
.379/(9.63)	.165/(4.19)	.544/(13.82)	RNA020-399G	RNB020-01MG
.500/(12.70)	.083/(2.11)	.583/(14.81)	RNA020-185G	FNB020-299MG
.500/(12.70)	.095/(2.41)	.595/(15.11)	RNA020-185G	RLNB020-49MG
.500/(12.70)	.120/(3.05)	.620/(15.75)	RNA020-185G	RLNB020-04MG
.500/(12.70)	.130/(3.30)	.630/(16.00)	RNA020-185G	RNB020-51MG
.500/(12.70)	.165/(4.19)	.665/(16.89)	RNA020-185G	RNB020-01MG
.585/(14.86)	.083/(2.11)	.668/(16.87)	RNA020-42G	FNB020-299MG
.585/(14.86)	.095/(2.41)	.680/(17.27)	RNA020-42G	RLNB020-49MG
.585/(14.86)	.120/(3.05)	.705/(17.91)	RNA020-42G	RLNB020-04MG
.585/(14.86)	.130/(3.30)	.715/(18.16)	RNA020-42G	RNB020-51MG
.585/(14.86)	.165/(4.19)	.750/(19.05)	RNA020-42G	RLNB020-01MG
.679/(17.25)	.083/(2.11)	.762/(19.36)	RNA020-398G	FNB020-299MG
.679/(17.25)	.095/(2.41)	.774/(19.66)	RNA020-398G	RLNB020-49MG
.679/(17.25)	.120/(3.05)	.799/(20.30)	RNA020-398G	RLNB020-04MG
.679/(17.25)	.130/(3.30)	.809/(20.55)	RNA020-398G	RNB020-51MG
.750/(19.06)	.083/(2.11)	.833/(21.17)	RNA020-403G	FNB020-299MG
.679/(17.25)	.165/(4.19)	.844/(21.44)	RNA020-398G	RNB020-01MG
.750/(19.06)	.095/(2.41)	.845/(21.47)	RNA020-403G	RLNB020-49MG
.750/(19.06)	.120/(3.05)	.870/(22.11)	RNA020-403G	RLNB020-04MG
.750/(19.06)	.130/(3.30)	.880/(22.36)	RNA020-403G	RNB020-51MG
.750/(19.06)	.165/(4.19)	.915/(23.25)	RNA020-403G	RNB020-01MG
.835/(21.21)	.083/(2.11)	.918/(23.32)	RNA020-71G	FNB020-299MG
.835/(21.21)	.095/(2.41)	.930/(23.62)	RNA020-71G	RLNB020-49MG
.835/(21.21)	.120/(3.05)	.955/(24.26)	RNA020-71G	RLNB020-04MG
.835/(21.21)	.130/(3.30)	.965/(24.51)	RNA020-71G	RNB020-51MG
.835/(21.21)	.165/(4.19)	1.000/(25.40)	RNA020-71G	RLNB020-01MG

20 position single row part numbers shown. See How To Order section for ordering information.

If required "A" dimension is not shown, consult factory.

Dimensional Information

Order one each Male & Female to get the required "A" dim.

B	C	A	Male Part #	Female Part #	Fig.
.030/(.76)	.015/(.38)	.045/(1.14)	KSA020-79G	KSS020-210MG	3
.030/(.76)	.030/(.76)	.060/(1.52)	KSA020-79G	KSS020-85MG	3
.070/(1.78)	.015/(.38)	.085/(2.16)	KSA020-80G	KSS020-210MG	3
.085/(2.16)	.015/(.38)	.100/(2.54)	KSA020-81G	KSS020-210MG	3
.070/(1.78)	.030/(.76)	.100/(2.54)	KSA020-80G	KSS020-85MG	3
.030/(.76)	.083/(2.11)	.113/(2.87)	KSA020-79G	FNB020-299MG	1
.085/(2.16)	.030/(.76)	.115/(2.92)	KSA020-81G	KSS020-85MG	3
.030/(.76)	.095/(2.41)	.125/(3.18)	KSA020-79G	KSS020-49MG	3
.030/(.76)	.120/(3.05)	.150/(3.81)	KSA020-79G	KSS020-04MG	3
.070/(1.78)	.083/(2.11)	.153/(3.89)	KSA020-80G	FNB020-299MG	1
.030/(.76)	.130/(3.30)	.160/(4.06)	KSA020-79G	KSS020-51MG	3
.070/(1.78)	.095/(2.41)	.165/(4.19)	KSA020-80G	KSS020-49MG	3
.085/(2.16)	.083/(2.11)	.168/(4.27)	KSA020-81G	FNB020-299MG	1
.155/(3.94)	.015/(.38)	.170/(4.32)	RNA020-444G	KSS020-210MG	2
.085/(2.16)	.095/(2.41)	.180/(4.57)	KSA020-81G	KSS020-49MG	3
.155/(3.94)	.031/(.79)	.186/(4.72)	RNA020-444G	KSS020-85MG	2
.070/(1.78)	.120/(3.05)	.190/(4.83)	KSA020-80G	KSS020-04MG	3
.030/(.76)	.165/(4.19)	.195/(4.95)	KSA020-79G	KSS020-33MG	3
.070/(1.78)	.130/(3.30)	.200/(5.08)	KSA020-80G	KSS020-51MG	3
.085/(2.16)	.120/(3.05)	.205/(5.21)	KSA020-81G	KSS020-04MG	3
.085/(2.16)	.130/(3.30)	.216/(5.47)	KSA020-81G	KSS020-51MG	3
.210/(5.33)	.015/(.38)	.225/(5.72)	RNA020-68G	KSS020-210MG	2
.070/(1.78)	.165/(4.19)	.235/(5.97)	KSA020-80G	KSS020-33MG	3
.210/(5.33)	.031/(.79)	.241/(6.12)	RNA020-68G	KSS020-85MG	2
.085/(2.16)	.165/(4.19)	.250/(6.35)	KSA020-81G	KSS020-33MG	3
.335/(8.51)	.015/(.38)	.350/(8.89)	RNA020-43G	KSS020-210MG	2
.379/(9.63)	.015/(.38)	.364/(9.25)	RNA020-399G	KSS020-210MG	2
.335/(8.51)	.031/(.79)	.366/(9.30)	RNA020-43G	KSS020-85MG	2
.379/(9.63)	.031/(.79)	.410/(10.42)	RNA020-399G	KSS020-85MG	2
.500/(12.70)	.015/(.38)	.515/(13.08)	RNA020-185G	KSS020-210MG	2
.500/(12.70)	.031/(.79)	.531/(13.79)	RNA020-185G	KSS020-85MG	2
.585/(14.86)	.015/(.38)	.600/(15.24)	RNA020-42G	KSS020-210MG	2
.585/(14.86)	.031/(.79)	.616/(15.65)	RNA020-42G	KSS020-85MG	2
.679/(17.25)	.015/(.38)	.694/(17.63)	RNA020-398G	KSS020-210MG	2
.679/(17.25)	.031/(.79)	.710/(18.04)	RNA020-398G	KSS020-85MG	2
.750/(19.06)	.015/(.38)	.765/(19.44)	RNA020-403G	KSS020-210MG	2
.750/(19.06)	.031/(.79)	.781/(19.85)	RNA020-403G	KSS020-85MG	2
.835/(21.21)	.015/(.38)	.850/(21.59)	RNA020-71G	KSS020-210MG	2
.835/(21.21)	.031/(.79)	.866/(22.00)	RNA020-71G	KSS020-85MG	2

20 position single row part numbers shown. See How To Order section for ordering information.

If required "A" dimension is not shown, consult factory.

Figure 1
Molded Body Female & Peel-A-Way® Male (32 Positions Maximum)

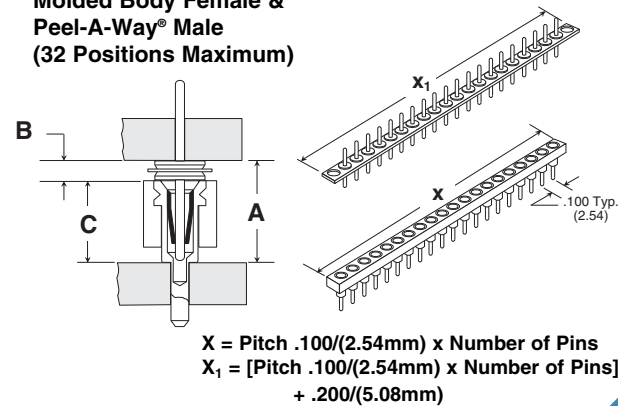


Figure 2
Peel-A-Way® Female & Molded Body Male (32 Positions Maximum)

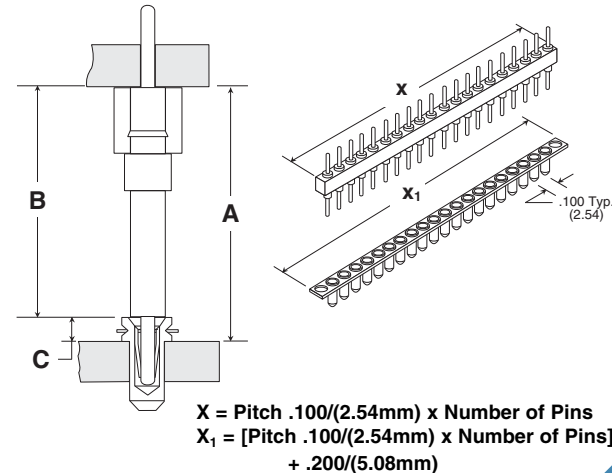
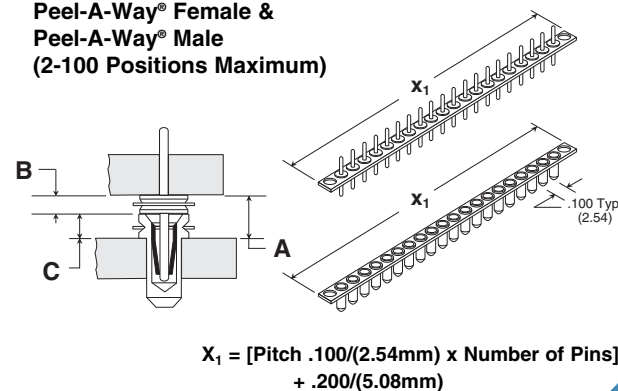
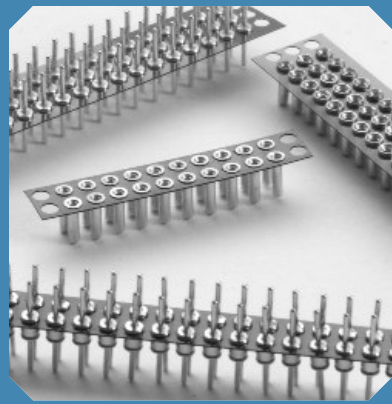


Figure 3
Peel-A-Way® Female & Peel-A-Way® Male (2-100 Positions Maximum)



ADVANCED INTERCONNECTIONS®
Infracon GmbH
Tel.: 089/158 126-0
www.infracon.de · info@infracon.de

Board to Board Connectors



Features:

- Supplied in high temperature Peel-A-Way® removable terminal carrier.
- Male and female connectors are designed in mating pairs.
- .079/(2.00mm) row to row pitch.
- High reliability screw-machined terminals with closed-end construction for 100% anti-wicking of solder.
- For surface mount board to board options consult factory.
- Reliable mechanical support.
- Custom configurations available.

Specifications:

Terminals:

Brass - Copper Alloy
(C36000) ASTM-B-16

Contacts:

Beryllium Copper
(C17200) ASTM-B-194







Plating:

G - Gold over Nickel
M - Matte Tin over Nickel
T - Tin/Lead over Nickel

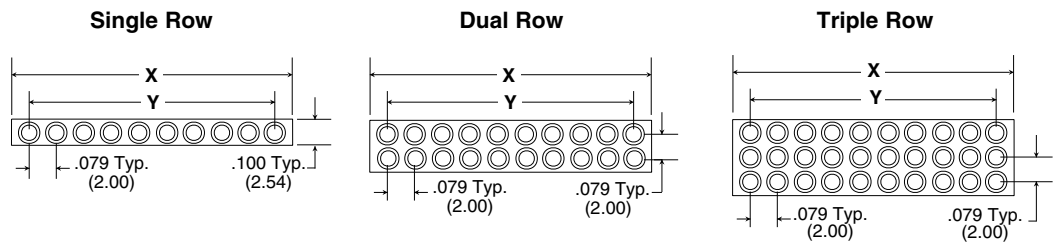
Gold per ASTM-B-488
Matte Tin per ASTM545-97
Tin/Lead per MIL-P-81728
Nickel per QQ-N-290

.079/(2.00mm) Pitch Board to Board Connectors Peel-A-Way® Insulators

Table of Models

	Single Row	Dual Row	Triple Row	
Female	 KMS	 KMD	 KMT	Description: Peel-A-Way® (KMS, KMD, KMT) Material: Polyimide Film Index: -269°C to 400°C (-452°F to 752°F)
	 KMA	 KMB	 KMC	

Dimensional Information

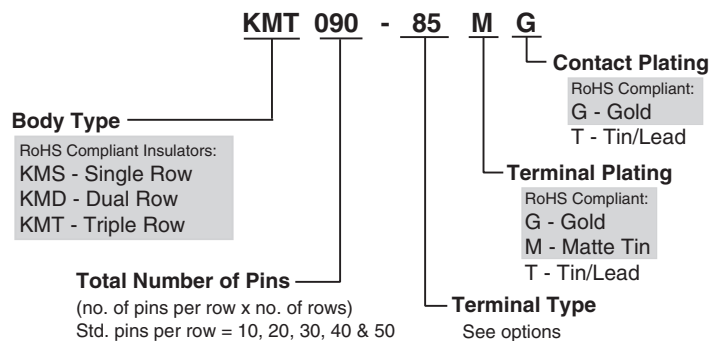


Total # of Pins per Connector			# of Pins Per Row	X in. (mm)	Y in. (mm)
Single	Dual	Triple			
010	020	030	10	.866/(22.00)	.709/(18.00)
020	040	060	20	1.654/(42.00)	1.496/(38.00)
030	060	090	30	2.441/(62.00)	2.283/(58.00)
040	080	120	40	3.228/(82.00)	3.071/(78.00)
050	100	150	50	4.016/(102.00)	3.858/(98.00)

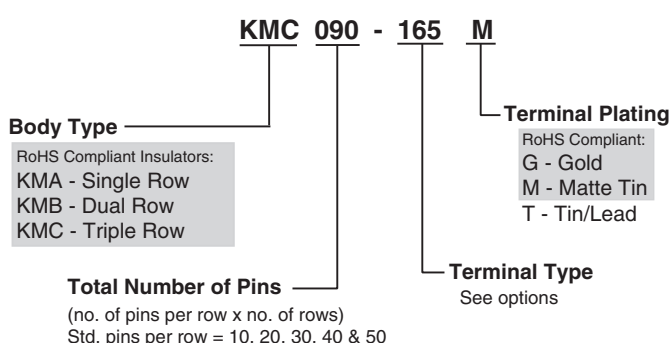
Multiply number of rows by number of pins per row for total pin count in part number.

How To Order

Female



Male



Infracron GmbH
Tel.: 089/158 126-0
www.infracron.de · info@infracron.de

Note: Terminals plated with Matte Tin are available only with Gold plated contacts.

Products shown covered by patents issued and/or pending. Specifications subject to change without notice.

inch/(mm)

.079/(2.00mm) Pitch Board to Board Connectors

Peel-A-Way® Insulators

Additional standard and custom terminals available.
See Terminals section or consult factory.

Standard Female Terminals

Type -85	Type -176	Type -210	Type -95
Peel-A-Way® only	Peel-A-Way® only	Peel-A-Way® only	Peel-A-Way® only

Standard Male Terminals

Type -165	Type -339	Type -340	Type -525
Peel-A-Way® only	Peel-A-Way® only	Peel-A-Way® only	Peel-A-Way® only

Dimensional Information

Figure 1
Thru-Hole

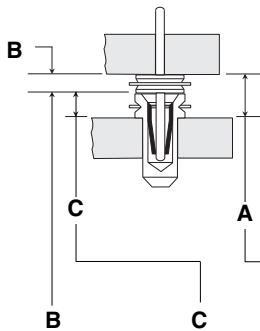
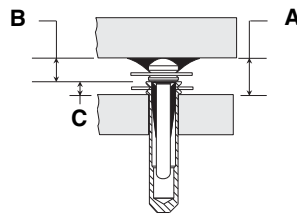


Figure 2
Surface Mount



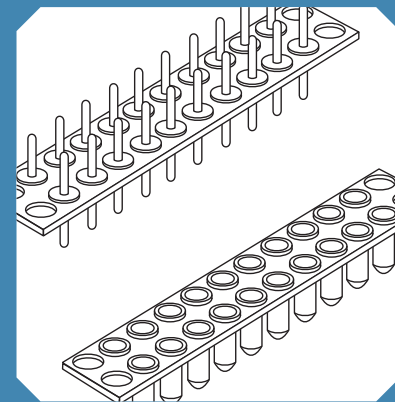
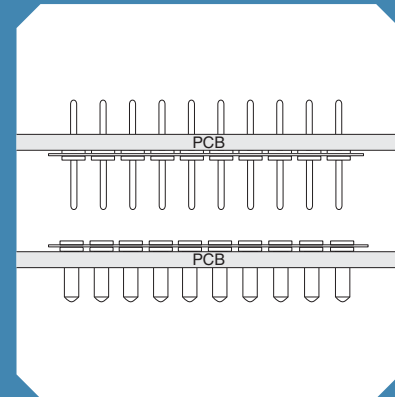
Order one each Male & Female to get the required "A" dim.

in./(mm)	in./(mm)	in./(mm)	Male Part #	Female Part #	Fig. #
.031/(.79)	.015/(.38)	.046/(1.17)	KMB020-165G	KMD020-210MG	1
.031/(.79)	.015/(.38)	.046/(1.17)	KMB020-525G	KMD020-210MG	2
.031/(.79)	.031/(.79)	.062/(1.57)	KMB020-165G	KMD020-85MG	1
.031/(.79)	.031/(.79)	.062/(1.57)	KMB020-525G	KMD020-85MG	2
.031/(.79)	.031/(.79)	.062/(1.57)	KMB020-165G	KMD020-176MG	1
.031/(.79)	.031/(.79)	.062/(1.57)	KMB020-525G	KMD020-176MG	2
.070/(1.78)	.015/(.38)	.085/(2.16)	KMB020-321G	KMD020-210MG	1
.085/(2.16)	.015/(.38)	.100/(2.54)	KMB020-322G	KMD020-210MG	1
.070/(1.78)	.031/(.79)	.101/(2.57)	KMB020-321G	KMD020-85MG	1
.070/(1.78)	.031/(.79)	.101/(2.57)	KMB020-321G	KMD020-176MG	1
.085/(2.16)	.031/(.79)	.116/(2.95)	KMB020-322G	KMD020-85MG	1
.085/(2.16)	.031/(.79)	.116/(2.95)	KMB020-322G	KMD020-176MG	1
.031/(.79)	.155/(3.94)	.186/(4.72)	KMB020-165G	KMD020-95MG	1
.031/(.79)	.155/(3.94)	.186/(4.72)	KMB020-525G	KMD020-95MG	2
.070/(1.78)	.155/(3.94)	.225/(5.72)	KMB020-321G	KMD020-95MG	1
.085/(2.16)	.155/(3.94)	.240/(6.10)	KMB020-322G	KMD020-95MG	1

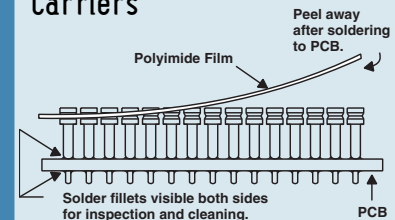
20 position dual row part numbers shown. See How To Order section for ordering information.

If required "A" dimension is not shown, consult factory.

Board to Board Connectors



Peel-A-Way® Removable Carriers



1. Place socket on PC board.
2. Send PC board and socket through soldering operation.
3. Peel away polyimide film carrier for complete solder joint visibility or leave in place for added stability.

Available Online:

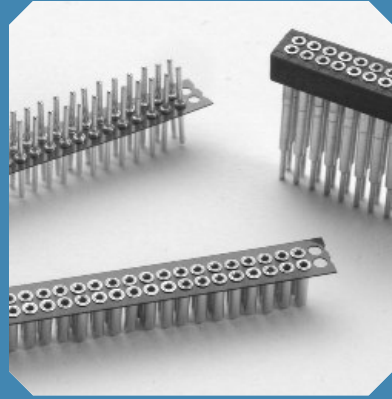
- RoHS Qualification Test Report



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Board to Board Connectors

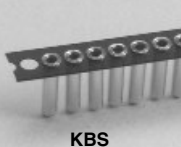


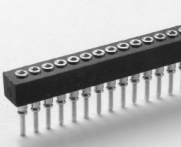
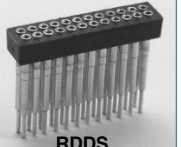
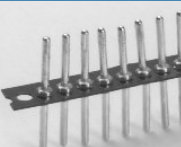


.050/(1.27mm) Pitch Board to Board Connectors Molded and Peel-A-Way® Insulators



Features:

- Male and female connectors are designed in mating pairs.
- .050/(1.27mm) row to row pitch.
- High reliability screw-machined terminals with closed-end construction for 100% anti-wicking of solder.
- For surface mount options, consult factory.
- Reliable mechanical support.
- Custom configurations available.

Table of Models

	Single Row	Dual Row	Triple Row	
Female	 KBS	 KNS	 KTS	Description: Peel-A-Way® (KBS, KNS, KTS) Material: Polyimide Film Index: -269°C to 400°C (-452°F to 752°F)
	 FSDS	 RDDS (RDD*)		
Male	 KBA	 KNA (KDA*)	 KTA	Description: Peel-A-Way® (KBA, KNA, KDA, KTA) Material: Polyimide Film Index: -269°C to 400°C (-452°F to 752°F)

* RDD and KDA have .100/(2.54mm) pitch between rows.

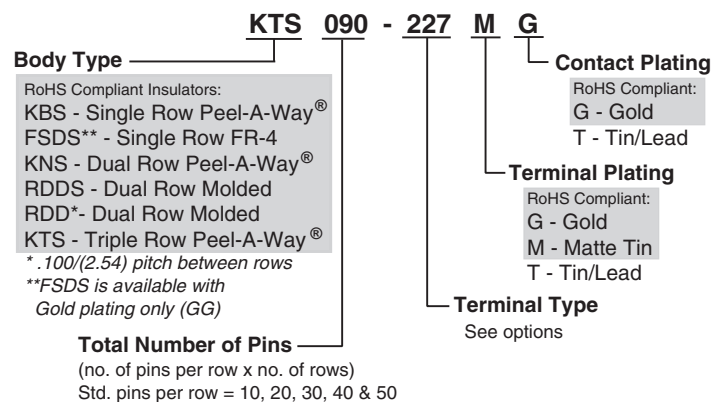
Note: FSDS replaces SDS, HSDS, and RSDS.

RDDS replaces DDS and HDDS.

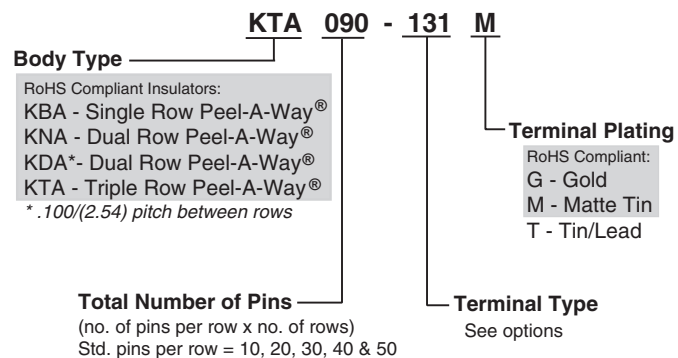
RDD replaces DD.

How To Order

Female



Male



Note: Terminals plated with Matte Tin are available only with Gold plated contacts.

Products shown covered by patents issued and/or pending. Specifications subject to change without notice.



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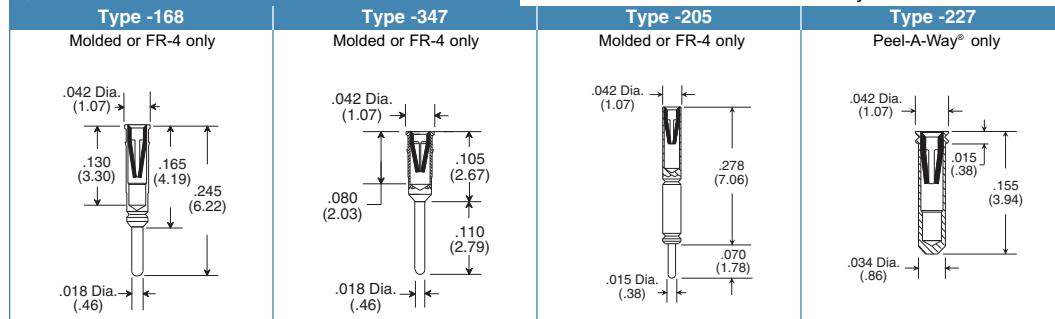
inch/(mm)

.050/(1.27mm) Pitch Board to Board Connectors

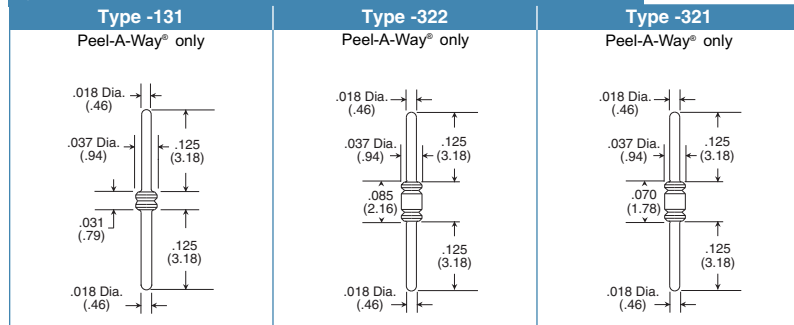
Molded and Peel-A-Way® Insulators

Additional standard and custom terminals available.
See Terminals section or consult factory.

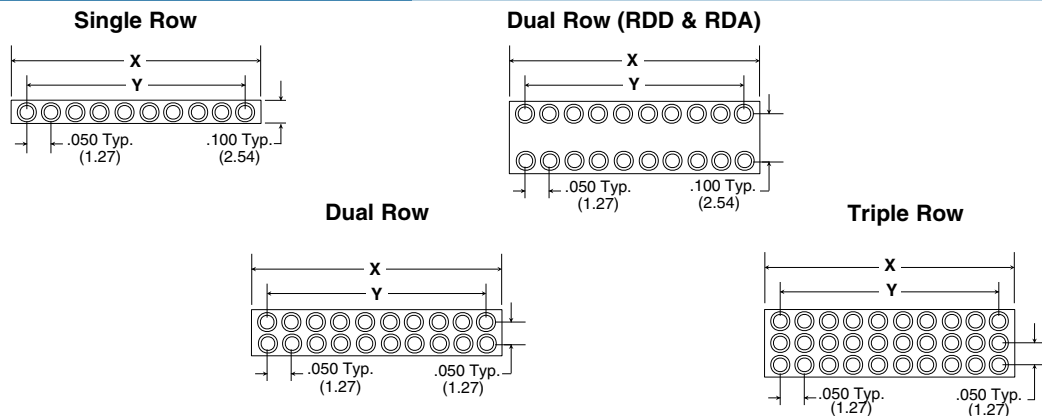
Standard Female Terminals



Standard Male Terminals - Thru-Hole



Dimensional Information



Molded or FR-4

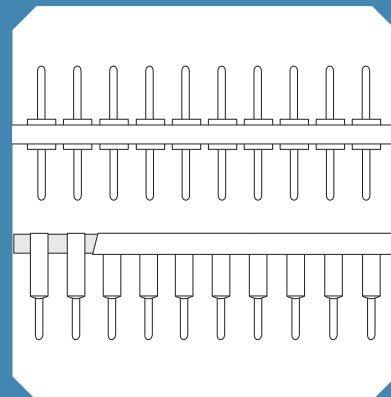
Total # of Pins per Connector			# of Pins Per Row	X in. (mm)	Y in. (mm)
Single	Dual	Triple			
010	020	030	10	.550 (13.97)	.450 (11.43)
020	040	060	20	1.050 (26.67)	.950 (24.13)
030	060	090	30	1.550 (39.37)	1.450 (36.83)
040	080	120	40	2.050 (52.07)	1.950 (49.53)
050	100	150	50	2.550 (64.77)	2.450 (62.23)

Peel-A-Way®

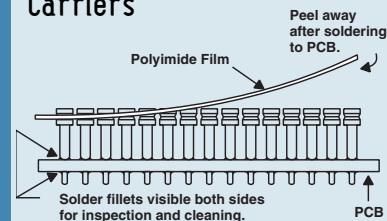
Total # of Pins per Connector			# of Pins Per Row	X in. (mm)	Y in. (mm)
Single	Dual	Triple			
010	020	030	10	.650 (16.51)	.450 (11.43)
020	040	060	20	1.150 (29.21)	.950 (24.13)
030	060	090	30	1.650 (41.91)	1.450 (36.83)
040	080	120	40	2.150 (54.61)	1.950 (49.53)
050	100	150	50	2.650 (67.31)	2.450 (62.23)

Multiply number of rows by number of pins per row for total pin count in part number.

Board to Board Connectors



Peel-A-Way® Removable Carriers



1. Place socket on PC board.
2. Send PC board and socket through soldering operation.
3. Peel away polyimide film carrier for complete solder joint visibility or leave in place for added stability.

Available Online:

- RoHS Qualification Test Report

See following pages for typical board to board spacing configuration and additional dimensional information.



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Dimensional Information

Thru-Hole Female & Male

Figure 1
Peel-A-Way® Female & Peel-A-Way® Male

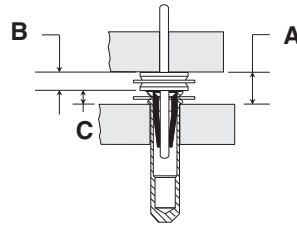
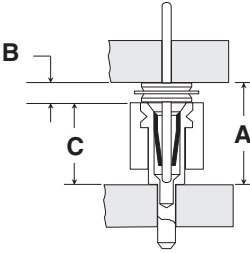
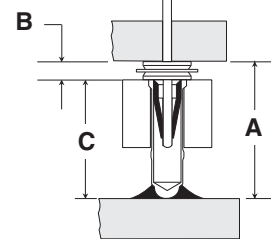


Figure 2
Molded or FR-4 Female & Peel-A-Way® Male



Surface Mount Female & Thru-Hole Male

Figure 3
Molded or FR-4 Female & Peel-A-Way® Male



Order one each Male & Female to get the required "A" dim.

B	C	A	Male Part #	Female Part #	Fig.
.031/(.79)	.015/(.38)	.046/(1.17)	KBA020-131G	KBS020-227MG	1
.070/(1.78)	.015/(.38)	.085/(2.16)	KBA020-321G	KBS020-227MG	1
.085/(2.16)	.015/(.38)	.100/(2.54)	KBA020-322G	KBS020-227MG	1
.031/(.79)	.118/(3.00)	.190/(4.83)	KBA020-131G	FSDS020-551GG	3
.070/(1.78)	.118/(3.00)	.188/(4.78)	KBA020-321G	FSDS020-551GG	3
.030/(.76)	.161/(4.09)	.192/(4.88)	KBA020-131G	FSDS020-553GG	3
.031/(.79)	.165/(4.19)	.196/(4.98)	KBA020-131G	FSDS020-168GG	2
.085/(2.16)	.118/(3.00)	.203/(5.16)	KBA020-322G	FSDS020-551GG	3
.070/(1.78)	.161/(4.09)	.231/(5.87)	KBA020-321G	FSDS020-553GG	3
.070/(1.78)	.165/(4.19)	.235/(5.97)	KBA020-321G	FSDS020-168GG	2
.085/(2.16)	.165/(4.19)	.250/(6.35)	KBA020-322G	FSDS020-168GG	2
.085/(2.16)	.161/(4.09)	.246/(6.25)	KBA020-322G	FSDS020-553GG	3
.031/(.79)	.278/(7.06)	.309/(7.85)	KBA020-131G	FSDS020-205GG	2
.070/(1.78)	.278/(7.06)	.348/(8.84)	KBA020-321G	FSDS020-205GG	2
.085/(2.16)	.278/(7.06)	.363/(9.22)	KBA020-322G	FSDS020-205GG	2

20 position single row part numbers shown.

See How To Order section for ordering information.

If required "A" dimension is not shown, consult factory.

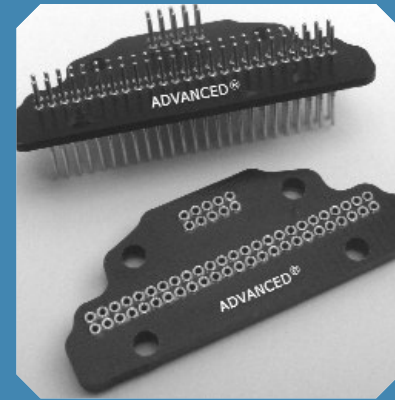
Custom Interconnect Solutions

Custom Board to Board and Cable to Board Connectors

With in-house technology from precision drilling and routing to CNC screw machining, combined with 25+ years of interconnect engineering, Advanced can quickly design a customized solution for your next connector application.

- Unique shapes to maximize board space
- Board to Board and Cable to Board solutions
- Customized screw-machined pins
- Multi-finger contacts for reliability
- Innovative designs can reduce overall connector count and associated assembly costs
- Easily transition to molded designs as volumes ramp-up
- Military, medical, industrial . . . anywhere that high reliability is needed
- Options such as pick-up covers, keying/polarization, integrated signal and power, special plating, etc.
- We specialize in solutions for blind mating, harsh environments, and tight board space restrictions

Custom Connectors



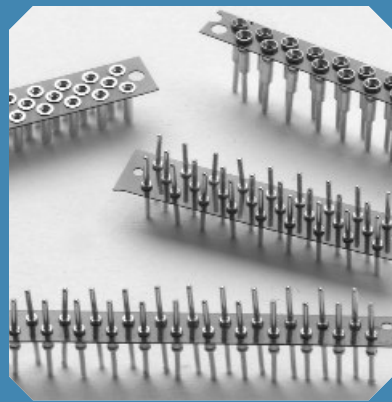
Custom Solutions

	<p>Product: SMT Perimeter Connector Description: To reduce space when connecting two circular PC boards, we designed a unique semi-circle insulator using existing 1.0mm pitch BGA Socket Adapter terminals. The prototype SMT connector was created in less than 5 days from FR-4 on our in-house precision driller/routing machine and features lead-free solder ball terminals on both the male header and the mating female connector (socket). The semi-circle design maximizes space when stacking circular printed circuit boards.</p>
	<p>Product: Application-specific Connector System Description: This military application required a robust solution to replace a stamped-and-formed connector while reducing overall costs. By reviewing the whole application, we reduced the overall connector count from 6 to 3 using a unique FR-4 insulator with high reliability screw-machined terminals (pins) that met stringent G-force requirements while providing a more robust, screw-machined solution at a lower total cost.</p>
	<p>Product: Connector for Blind Mating Description: This keyed and polarized, cylindrical connector is designed to mate up to 5 PC boards in a harsh environment military application. FR-4 was selected to reduce tooling costs and provide fast prototypes. The shroud protects the pins and facilitates mating. This unique design reduced assembly time and increased the overall system reliability and performance.</p>
	<p>Product: Custom B2B[®] SMT Connector Description: Our line of B2B[®] SMT Connectors can be easily customized to provide robust SMT board to board mating in a variety of applications. This example is an 80 position connector made from FR-4 with a mated height of only 6.0mm. The surface mount design reduces the required PC board layers. Available in leaded or lead-free designs.</p>



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 www.infracron.de · info@infracron.de

Board to Board Connectors



Features:

- Supplied in high temperature Peel-A-Way® removable terminal carrier.
- Female and male connectors are designed in mating pairs.
- .050/(1.27mm) row to row pitch.
- High reliability screw-machined terminals with closed-end construction for 100% anti-wicking of solder.
- Custom configurations available.

Specifications:

Terminals:

Brass - Copper Alloy
(C36000) ASTM-B-16

Contacts:

Beryllium Copper
(C17200) ASTM-B-194


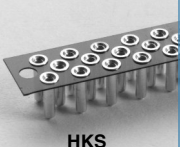
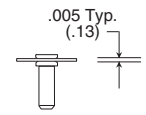

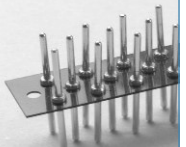
Plating:

G - Gold over Nickel
M - Matte Tin over Nickel
T - Tin/Lead over Nickel

Gold per ASTM-B-488
Matte Tin per ASTM545-97
Tin/Lead per MIL-P-81728
Nickel per QQ-N-290

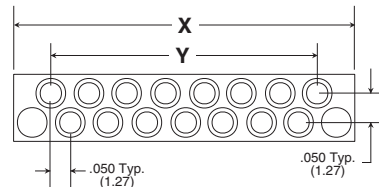
Staggered .050/(1.27mm) Pitch Board to Board Connectors Peel-A-Way® Insulators

Table of Models

	Dual Row	Triple Row		
Female	 KES	 HKS	Description: Peel-A-Way® (KES, HKS) Material: Polyimide Film Index: -269°C to 400°C (-452°F to 752°F)	 .005 Typ. (.13)
	 KEA	 HKA		

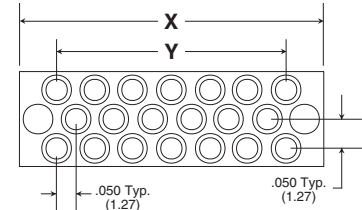
Dimensional Information

Dual Row (ex. KES015-)



# of Pins Total	X in. (mm)	Y in. (mm)
5	.400 (10.16)	.200 (5.08)
9	.600 (15.24)	.400 (10.16)
15	.900 (22.86)	.700 (17.78)
19	1.100 (27.94)	.900 (22.86)
25	1.400 (35.56)	2.450 (30.48)

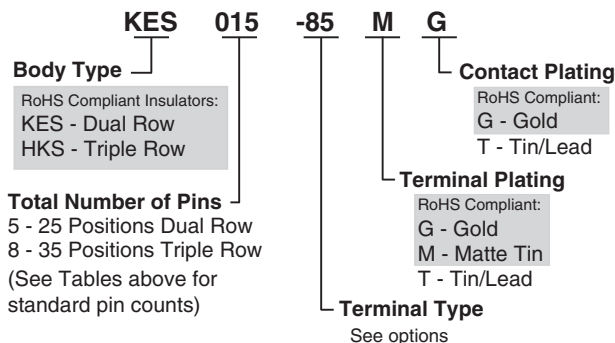
Triple Row (ex. HKS020-)



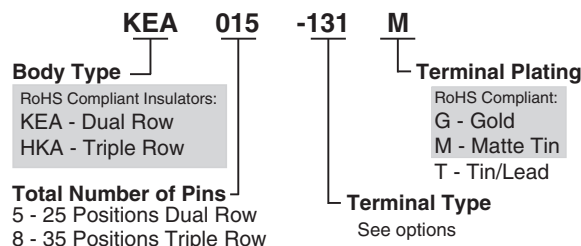
# of Pins Total	X in. (mm)	Y in. (mm)
8	.400 (10.16)	.200 (5.08)
14	.600 (15.24)	.400 (10.16)
20	.800 (20.32)	.600 (15.24)
26	1.000 (25.40)	.800 (20.32)
35	1.300 (33.02)	1.100 (27.94)

How To Order

Female



Male



Note: Terminals plated with Matte Tin are available only with Gold plated contacts.

Products shown covered by patents issued and/or pending. Specifications subject to change without notice.



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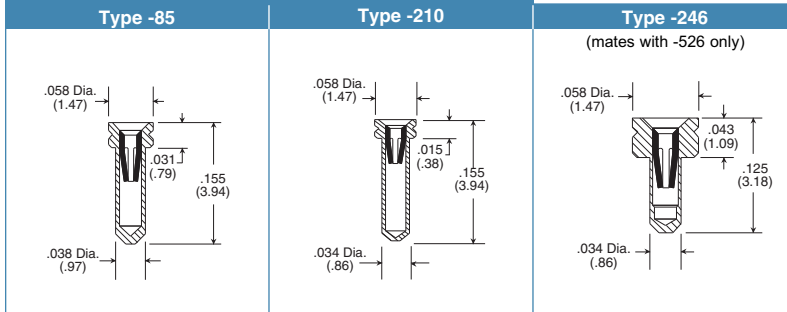
inch/(mm)

Staggered .050/(1.27mm) Pitch Board to Board Connectors Peel-A-Way® Insulators

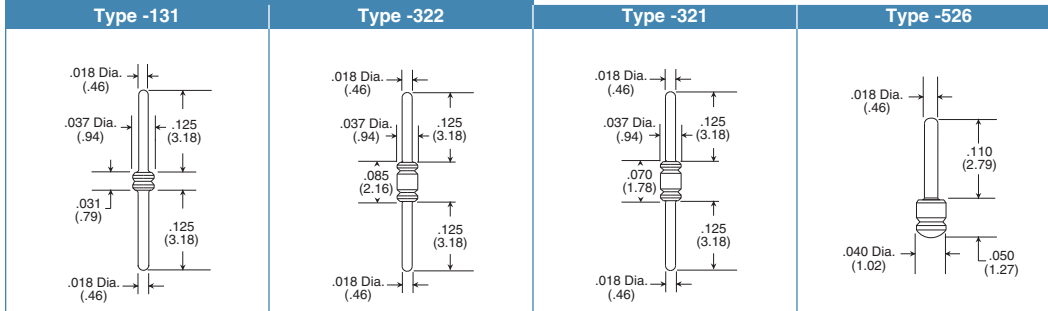
Board to Board Connectors

Standard Female Terminals

Additional standard and custom terminals available.
See Terminals section or consult factory.



Standard Male Terminals



Dimensional Information

Figure 1
Thru-Hole

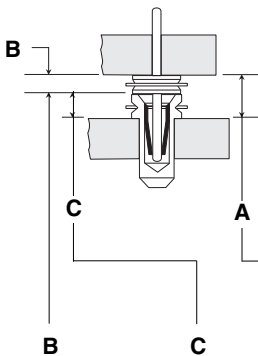
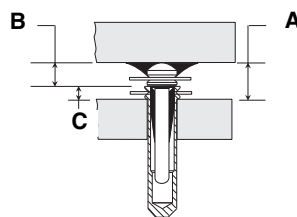


Figure 2
Surface Mount

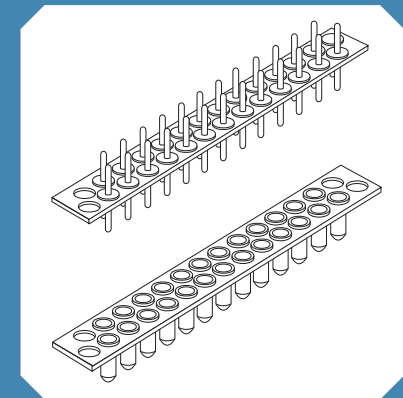
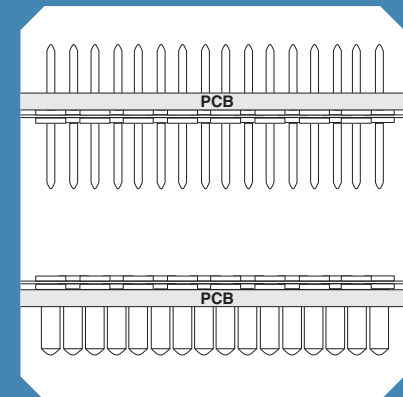


Order one each Male & Female
to get the required "A" dim.

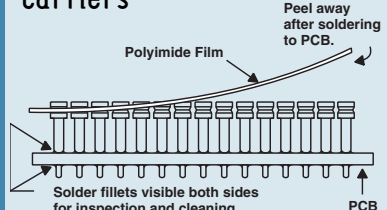
B	C	A	Male Part #	Female Part #	Fig. #
.031/(.79)	.015/(.38)	.046/(1.17)	KEA015-131G	KES015-210MG	1
.031/(.79)	.015/(.38)	.046/(1.17)	KEA015-525G	KES015-210MG	2
.031/(.79)	.031/(.79)	.062/(1.57)	KEA015-131G	KES015-85MG	1
.031/(.79)	.031/(.79)	.062/(1.57)	KEA015-525G	KES015-85MG	2
.050/(1.27)	.015/(.38)	.065/(1.65)	KEA015-526G	KES015-210MG	2
.050/(1.27)	.031/(.79)	.081/(2.06)	KEA015-526G	KES015-85MG	2
.070/(1.78)	.015/(.38)	.085/(2.16)	KEA015-321G	KES015-210MG	1
.050/(1.27)	.043/(1.09)	.093/(2.36)	KEA015-526G	KES015-246MG	2
.085/(2.16)	.015/(.38)	.100/(2.54)	KEA015-322G	KES015-210MG	1
.070/(1.78)	.031/(.79)	.101/(2.57)	KEA015-321G	KES015-85MG	1
.085/(2.16)	.031/(.79)	.116/(2.95)	KEA015-322G	KES015-85MG	1

15 position dual row part numbers shown.
See How To Order section for ordering information.

If required "A" dimension is not shown, consult factory.



Peel-A-Way® Removable Carriers



1. Place socket on PC board.
2. Send PC board and socket through soldering operation.
3. Peel away polyimide film carrier for complete solder joint visibility or leave in place for added stability.

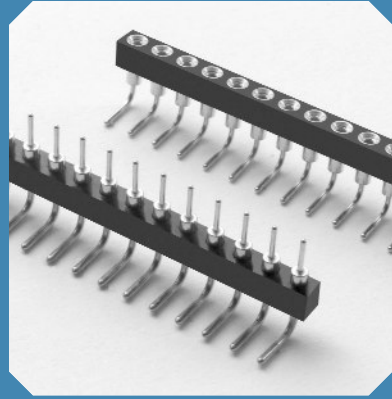
Available Online:

- RoHS Qualification Test Report



Infracon GmbH
Tel.: 089/158 126-0
www.infracon.de · info@infracon.de

Board to Board Connectors



Features:

- High reliability method of interconnecting PCB to PCB.
- .018/(.46mm) diameter male pins.
- Screw-machined terminals with multi-finger contacts.

Specifications:

Terminals:

Brass - Copper Alloy
(C36000) ASTM-B-16

Contacts:

Beryllium Copper
(C17200) ASTM-B-194

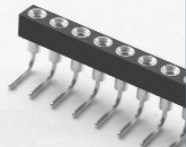
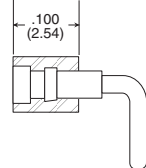
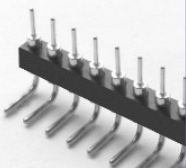
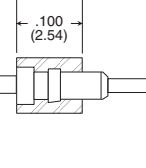
Plating:

G - Gold over Nickel
M - Matte Tin over Nickel
T - Tin/Lead over Nickel

Gold per ASTM-B-488
Matte Tin per ASTM545-97
Tin/Lead per MIL-P-81728
Nickel per QQ-N-290

Single Row Right Angle Board to Board Connectors .100/(2.54mm) Pitch • Molded Insulators

Table of Models

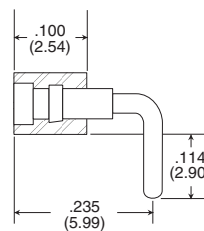
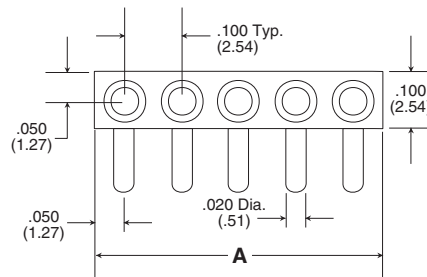
Female		<p>Description: FR-4 Single Row (FLSS) Material: FR-4 Fiberglass Epoxy Board Index: -40°C to 140°C (-40°F to 284°F)</p>	
Male		<p>Description: FR-4 Single Row (FLSA) Material: FR-4 Fiberglass Epoxy Board Index: -40°C to 140°C (-40°F to 284°F)</p>	

FLSS replaces RLSS and FLSA replaces RLSA.

Dimensional Information

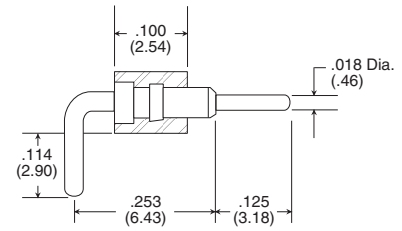
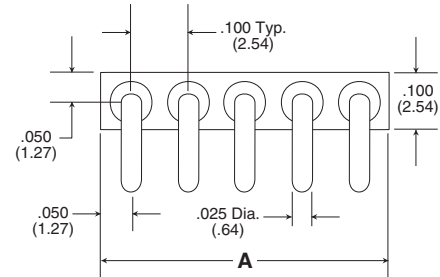
Female

FLSSXXX-160XX



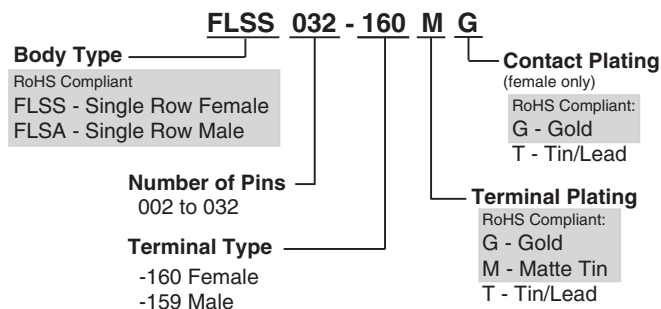
Male

FLSAXXX-159X



$$A = \text{Pitch } .100/(2.54\text{mm}) \times \text{Number of Terminals in Row}$$

How To Order



Note: Terminals plated with Matte Tin are available only with Gold plated contacts.

Products shown covered by patents issued and/or pending. Specifications subject to change without notice.

inch/(mm)



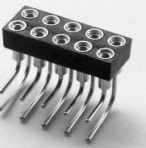
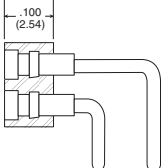
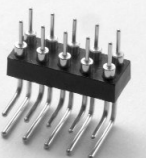
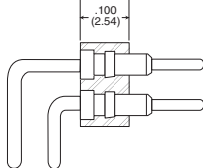
Infracron GmbH
Tel.: 089/158 126-0
www.infracron.de info@infracron.de

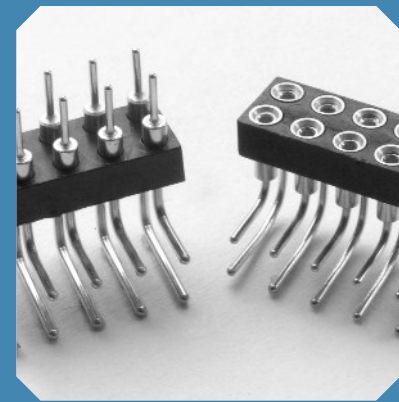
Dual Row Right Angle Board to Board Connectors

.100/(2.54mm) Pitch • Molded Insulators

Board to Board Connectors

Table of Models

Female	 <p>Description: Molded Dual Row (RLSS) Material: High Temp. Liquid Crystal Polymer (LCP) Index: -40°C to 260°C (-40°F to 500°F)</p>	
Male	 <p>Description: Molded Dual Row (RLSA) Material: High Temp. Liquid Crystal Polymer (LCP) Index: -40°C to 260°C (-40°F to 500°F)</p>	

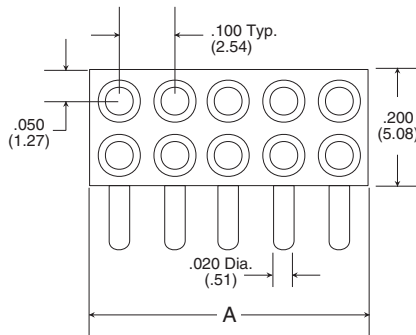


Dimensional Information

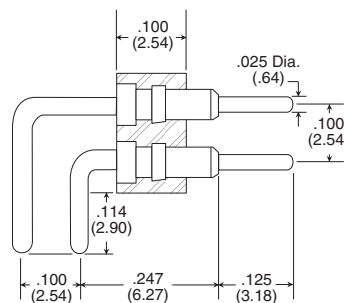
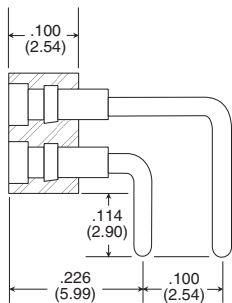
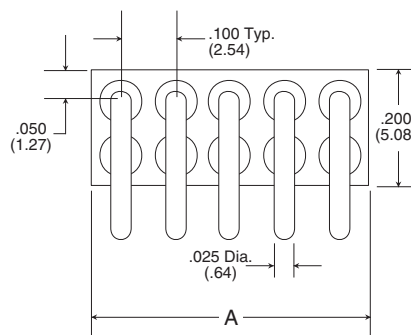
Female

Male

RLSSXXX-162XX



RLSAXXX-161X



A = Pitch .100/(2.54mm) x Number of Terminals in Row

Features:

- High reliability method of interconnecting PCB to PCB.
- .025/(.64mm) diameter male pins.
- .100/(2.54mm) row to row pitch.
- Screw-machined terminals with multi-finger contacts.

Specifications:

Terminals:

Brass - Copper Alloy
(C36000) ASTM-B-16

Contacts:

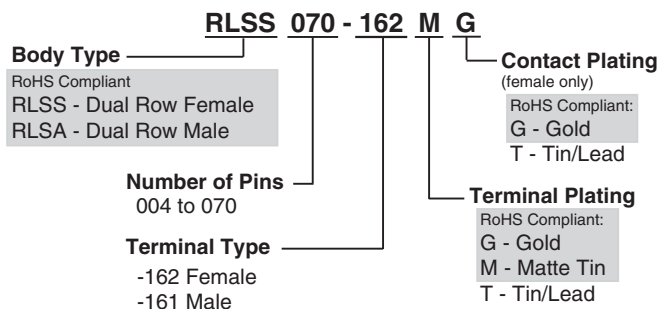
Beryllium Copper
(C17200) ASTM-B-194

Plating:

G - Gold over Nickel
M - Matte Tin over Nickel
T - Tin/Lead over Nickel

Gold per ASTM-B-488
Matte Tin per ASTM545-97
Tin/Lead per MIL-P-81728
Nickel per QQ-N-290

How To Order



Note: Terminals plated with Matte Tin are available only with Gold plated contacts.

inch/(mm)

Products shown covered by patents issued and/or pending. Specifications subject to change without notice.



Infracon GmbH
Tel.: 089/158 126-0
www.infracon.de • info@infracon.de



Features:

- Robust, shrouded design with screw-machined terminals and multi-finger contacts can withstand the rigorous demands of blind mating and mating/unmating cycles.
- At 3 amps per pin, more contacts can be assigned to data/signal transfer (fewer pins needed to handle power and ground).
- High density - over 400 contacts per square inch.
- Industry standard footprints in four mated heights.
- Precision molded with integral polarization keying features.

Specifications:

Terminals:

Brass - Copper Alloy
(C36000) ASTM-B-16

Contacts:

Beryllium Copper
(C17200) ASTM-B-194



Solder Ball:

Standard: 63Sn/37Pb
Lead-free: 95.5Sn/4.0Ag/0.5Cu

Plating:

G - Gold over Nickel
Gold per ASTM-B-488
Nickel per QQ-N-290

Table of Models

Female		<p>Description: Molded B2B® Connector (BB) Material: High Temp. Liquid Crystal Polymer (LCP) Index: -40°C to 260°C (-40°F to 500°F)</p>
Male		<p>Description: Molded B2B® Connector (BA) Material: High Temp. Liquid Crystal Polymer (LCP) Index: -40°C to 260°C (-40°F to 500°F)</p>

Performance

Mated Height	Differential Insertion Loss	Differential Return Loss
6.00mm	-20dB @ 1.70 GHz -50dB @ 3.30 GHz	-10dB @ 3.30 GHz -15dB @ 1.70 GHz
8.00mm	-15dB @ 1.30 GHz -50dB @ 2.50 GHz	-10dB @ 2.50 GHz -15dB @ 1.30 GHz
12.70mm	-20dB @ 1.70 GHz -51dB @ 3.40 GHz	-10dB @ 3.40 GHz -15dB @ 1.70 GHz
19.05mm	-60dB @ 2.20 GHz -20dB @ 1.40 GHz	-10dB @ 2.20 GHz -15dB @ 1.40 GHz

Insertion Force (6.00mm, 300 position):
50g average (per pin)

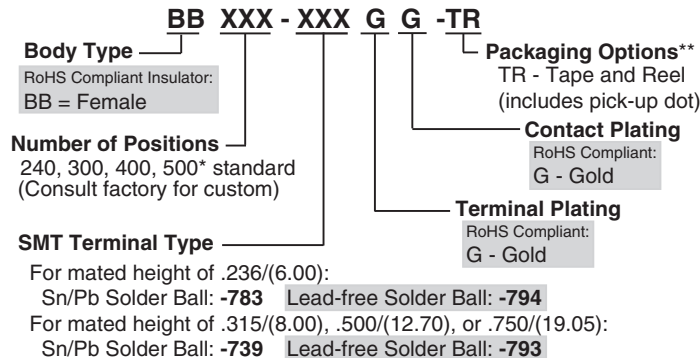
Durability (mated cycles):
500 cycles (<10mΩ change in resistance)

Extraction Force (6.00mm, 300 position):
45g average (per pin)

Additional performance and test data available online.

How To Order

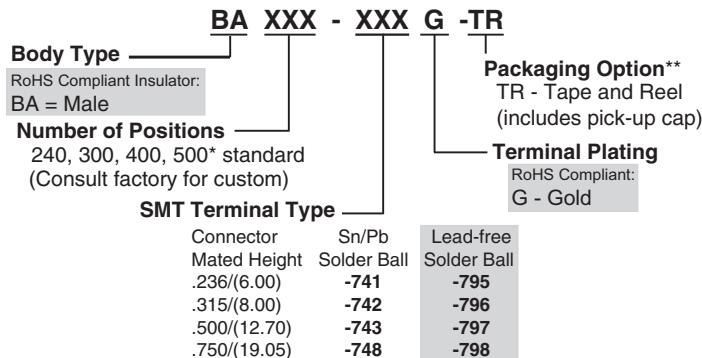
Female



*500 pos. available in 6mm mated height only.

**If no packaging code is indicated, female connectors are supplied with pick-up dots in standard trays.

Male



*500 pos. available in 6mm mated height only.

**If no packaging code is indicated, male connectors are supplied with pick-up caps in standard trays.



B2B® High Density SMT Connectors .050/(1.27mm) Pitch

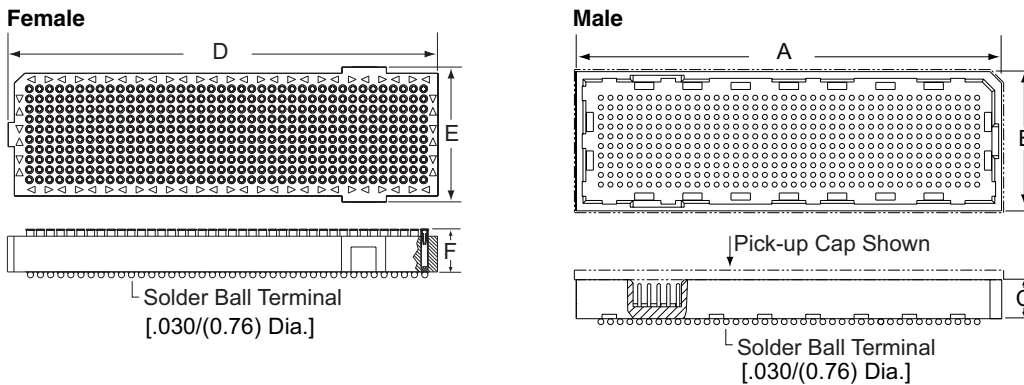
Standard Footprints

1.27mm Pitch

	<ul style="list-style-type: none"> • 240 Positions • 30x8 Rows
	<ul style="list-style-type: none"> • 300 Positions • 30x10 Rows
	<ul style="list-style-type: none"> • 400 Positions • 40x10 Rows
	<ul style="list-style-type: none"> • 500 Positions • 50x10 Rows

Consult factory for custom sizes.

Dimensional Information



Mated Board to Board Height*	A in./(mm)	B in./(mm)	C [^] in./(mm)	D [^] in./(mm)	E [^] in./(mm)	F [^] in./(mm)
.236/(6.00)	1.704/(43.28)	.622/(15.80)	.202/(5.13)	1.626/(41.30)	.567/(14.40)	.136/(3.45)
.315/(8.00)	1.704/(43.28)	.622/(15.80)	.273/(6.93)	1.626/(41.30)	.567/(14.40)	.211/(5.36)
.500/(12.70)	1.704/(43.28)	.622/(15.80)	.462/(11.73)	1.626/(41.30)	.567/(14.40)	.211/(5.36)
.750/(19.05)	1.704/(43.28)	.622/(15.80)	.712/(18.09)	1.626/(41.30)	.567/(14.40)	.211/(5.36)
.236/(6.00)	1.704/(43.28)	.722/(18.34)	.202/(5.13)	1.626/(41.30)	.667/(16.94)	.136/(3.45)
.315/(8.00)	1.704/(43.28)	.722/(18.34)	.273/(6.93)	1.626/(41.30)	.667/(16.94)	.211/(5.36)
.500/(12.70)	1.704/(43.28)	.722/(18.34)	.462/(11.73)	1.626/(41.30)	.667/(16.94)	.211/(5.36)
.750/(19.05)	1.704/(43.28)	.722/(18.34)	.712/(18.09)	1.626/(41.30)	.667/(16.94)	.211/(5.36)
.236/(6.00)	2.204/(55.98)	.722/(18.34)	.202/(5.13)	2.126/(54.00)	.667/(16.94)	.136/(3.45)
.315/(8.00)	2.204/(55.98)	.722/(18.34)	.273/(6.93)	2.126/(54.00)	.667/(16.94)	.211/(5.36)
.500/(12.70)	2.204/(55.98)	.722/(18.34)	.462/(11.73)	2.126/(54.00)	.667/(16.94)	.211/(5.36)
.750/(19.05)	2.204/(55.98)	.722/(18.34)	.712/(18.09)	2.126/(54.00)	.667/(16.94)	.211/(5.36)
.236/(6.00)	2.704/(68.68)	.722/(18.34)	.202/(5.13)	2.626/(66.70)	.667/(16.94)	.136/(3.45)

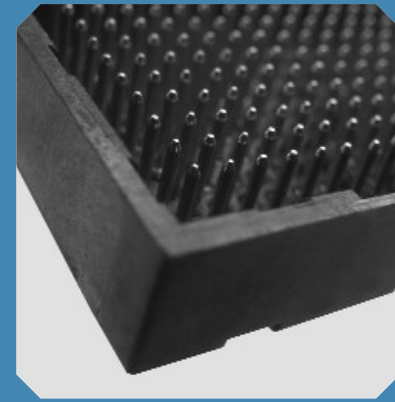
Additional mated heights coming soon. Consult factory.

*Approximate dimension after soldering. [^]Dimensions do not include solder ball height.

inch/(mm)

Products shown covered by patents issued and/or pending. Specifications subject to change without notice.

Board to Board Connectors



Packaging & Options:

Male connectors - supplied with a pick-up cap to protect male pins and facilitate automated pick-and-place. Pick-up cap remains in place during reflow.



Female connectors - supplied with a polyimide dot to facilitate automated pick-and-place.

Tape and Reel - Add -TR to end of part number for Tape and Reel packaging.

Standard Trays - If no packaging code is indicated, connectors are shipped in standard trays (Note: Trays are not suitable for automated pick-and-place processes.)

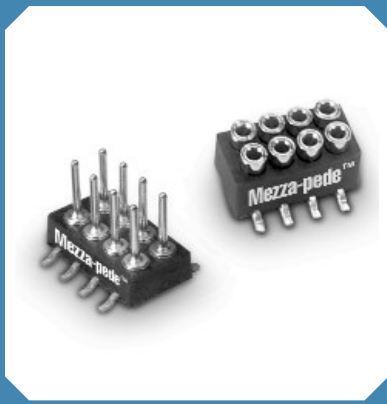
Available Online:

- RoHS Qualification Test Report
- Product Specification
- Test data
- Signal Integrity Data
- CAD Drawings



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www.infracor.de · info@infracor.de

Board to Board Connectors



Mezza-pede® Low Profile SMT Connectors .039/(1.00mm) Pitch • For Cable to Board or Board to Board Applications

Table of Models

Gender	Description	Material	Index	Dimensions
Female	Description: Molded SMT Socket (DHS)	High Temp. Liquid Crystal Polymer (LCP)	-40°C to 260°C (-40°F to 500°F)	.080 (2.03)
Male	Description: Molded SMT Header (DHAM)	High Temp. Liquid Crystal Polymer (LCP)	-40°C to 260°C (-40°F to 500°F)	.050 (1.27)
	Description: Flexible Thru-hole Header (DHA)	Polyimide Film	-269°C to 400°C (-452°F to 752°F)	.005 (.130)

Features:

- Low profile connector system for 1.00mm pitch cable to board or board to board applications - only .100/(2.54mm) tall on female (socket) side.
- Robust design features screw-machined terminals and multi-finger contacts rated at 3 amps.
- Fits within existing board layouts.
- Over-molded lead frame seals surface mount pins to prevent solder wicking.
- SMT and thru-hole designs available.
- Passed 20-Day MFG test.

Specifications:

Terminals:

Brass - Copper Alloy (C36000) ASTM-B-16

Contacts:

Beryllium Copper (C17200) ASTM-B-194

Lead Frame:

Beryllium Copper (CA 172)

Plating:

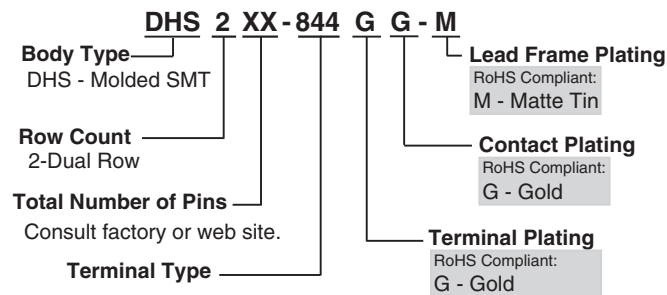
G - Gold over Nickel
GH - Heavy Gold over Nickel
M - Matte Tin over Nickel

Gold per ASTM-B-488
Matte Tin per ASTM545-97
Nickel per QQ-N-290

How To Order

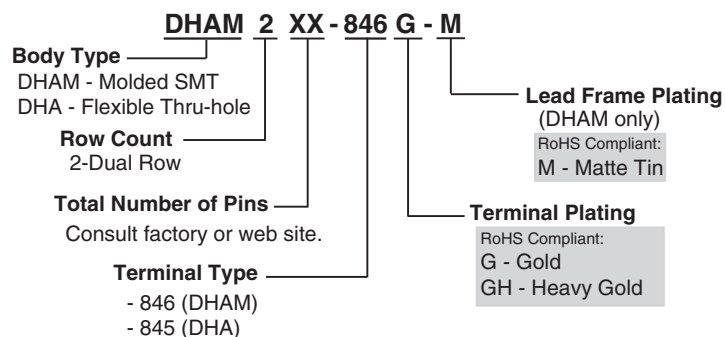


Female



Packaging: DHS is supplied in tape and reel packaging.

Male



Packaging: DHAM is supplied with pick-and-place cover in tape and reel packaging. DHA is supplied in standard trays. (Trays are not suitable for automated pick-and-place processes).

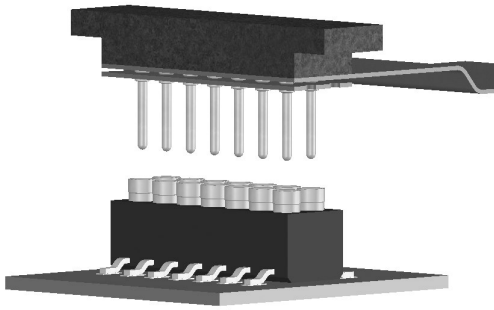


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www.infracor.de · info@infracor.de

Mezza-pede® Low Profile SMT Connectors

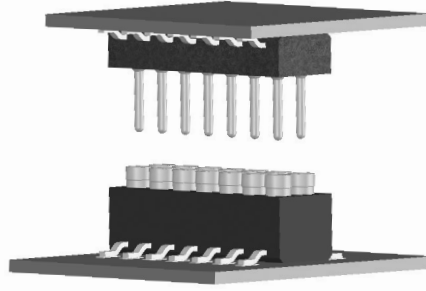
.039/(1.00mm) Pitch • For Cable to Board or Board to Board Applications

How It Works



Thru-hole Flex Cable Application

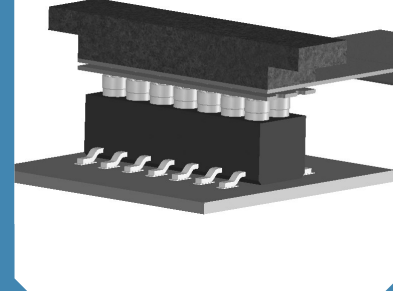
1. The male terminals are supplied in a polyimide film carrier to facilitate handling.
2. A stiffener with a recommended thickness of .020 inches should be used between the terminal pins and the flex circuit. (Stiffener not supplied)
3. The recommended maximum hole in the stiffener is .018 diameter.
4. The flex circuit should have a minimum diameter plated through hole of .016. Standard practices for flex circuit thru-hole and annular rings should apply.
5. An FR-4 cover can be used to protect the top solder joints if required. (not supplied)



SMT Board to Board Application

1. In an SMT application, the SMT socket (DHS) or either header (DHA, DHAM) can be used on PC boards, rigid flex or flex circuits.
2. SMT pad size should meet IPC standards for surface mount components.
3. See lead dimension and foot size on applicable CAD drawing for reference.
4. Tape and reel packaging is provided for SMT assembly.

Board to Board Connectors



Typical Applications

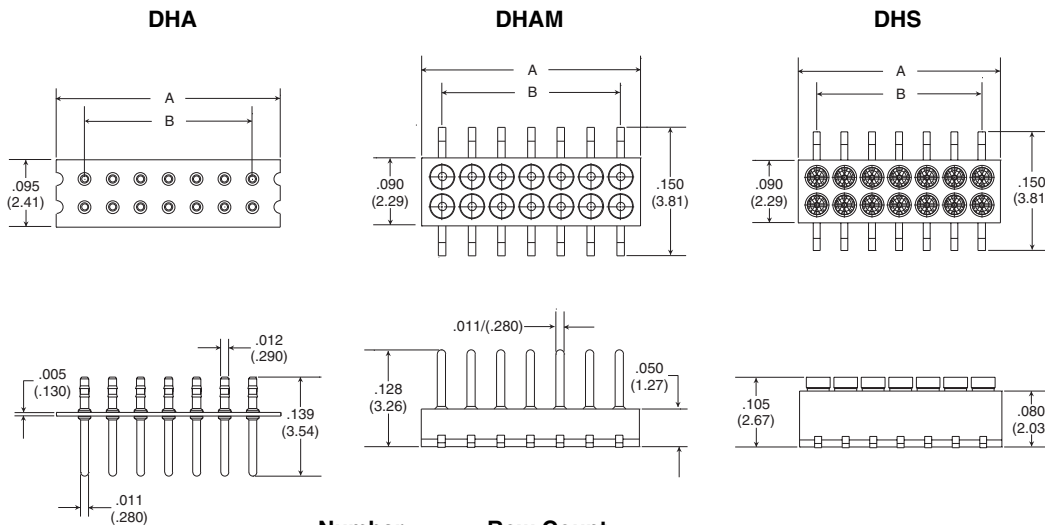
- Tunable Laser power connector (flex cable to board)
- Tunable Laser connector (board to board)
- Signal connector (flex cable to board)
- Low profile board to board connector

Test Data:

High Reliability Contact System Passes:

- Passes 20-Day Mixed Flowing Gas (MFG)
- Thermal cycle: 100 cycles 125°C to -40°C.

Dimensional Information



Part Number	Number of Pins	Row Count Configuration	A	B
DHS/DHAM	8	2 x 4	.171/(4.34)	.118/(3.00)
DHS/DHAM	14	2 x 7	.290/(7.36)	.236/(6.00)
DHS/DHAM	36	2 x 18	.722/(18.34)	.669/(17.00)
DHA	8	2 x 4	.197/(5.00)	.118/(3.00)
DHA	14	2 x 7	.315/(8.00)	.236/(6.00)
DHA	36	2 x 18	.748/(19.00)	.669/(17.00)

Note: Pin to pin spacing is .039/(1.00). Lead frame width is .010/(0.25).

Available Online:

- Additional test data and reports
- CAD Drawings



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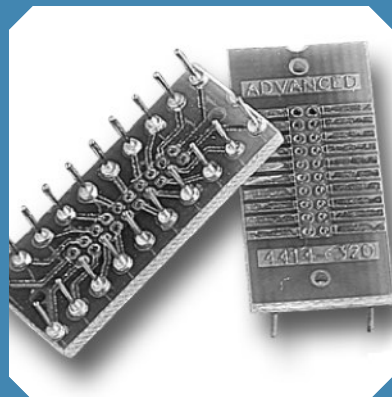
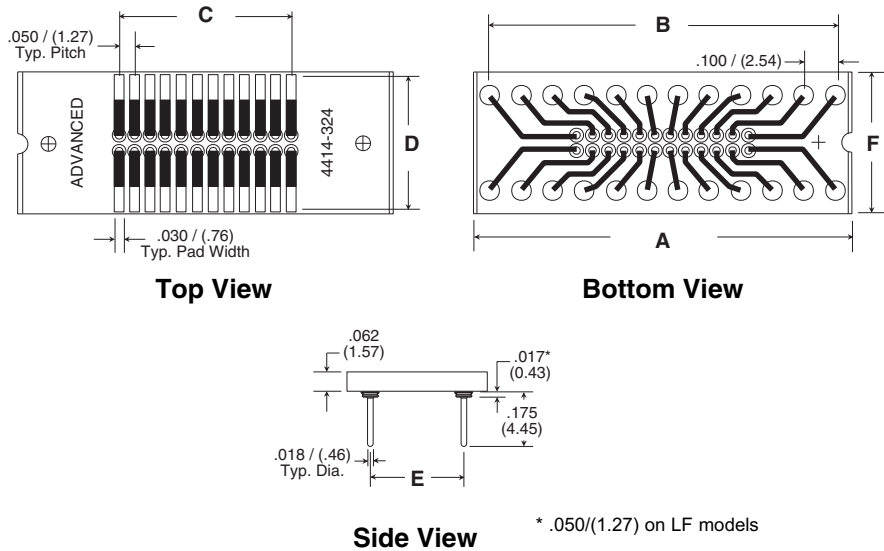


Table of Models

	<p>Description: SOIC to DIP Adapter (4414) Material: Copper Clad FR-4 Index: -40°C to 140°C (-40°F to 284°F)</p> <p>Device attach service available.</p>	
--	--	--

Dimensional Information



Features:

- Adapter allows present Gull Wing devices to be solderable or socketable in a thru-hole application.
- Pin spacing allows space for conductor runs on PCB.
- Saves space (X, Y & Z) when used with Advanced sockets.
- Radius ends of adapter pins to improve socketing.
- Allows testing with standard test clips.
- RoHS Compliant designs available.
- Device attach service available.

Specifications:

Body Material:

Copper Clad FR-4
 U.L. Rated 94V-0

Pad Plating:

Standard: Tin/Lead Solder
 Lead-free: Immersion Gold

Terminals:

Brass - Copper Alloy
 (C36000) ASTM-B-16

Terminal Plating:

Standard: Tin/Lead over Nickel
 Lead-free: Gold over Nickel

Gold per ASTM-B-488

Tin/Lead per MIL-P-81728

Nickel per QQ-N-290



Standard Part Numbers	Lead-free Part Numbers	# of Pins	Pkg. ¹ Qty.	A	B	C	D	E	F
4414-308	4414-308LF	8	70	.400 (10.16)	.300 (7.62)	.150 (3.81)	.429 (10.90)	.300 (7.62)	.450 (11.43)
4414-314	4414-314LF	14	42	.700 (17.78)	.600 (15.24)	.300 (7.62)	.429 (10.90)	.300 (7.62)	.450 (11.43)
4414-316	4414-316LF	16	35	.800 (20.32)	.700 (17.78)	.350 (8.89)	.429 (10.90)	.300 (7.62)	.450 (11.43)
4414-320	4414-320LF	20	28	1.000 (25.40)	.900 (22.86)	.450 (11.43)	.429 (10.90)	.300 (7.62)	.450 (11.43)
4414-324	4414-324LF	24	21	1.200 (30.48)	1.100 (27.94)	.550 (13.97)	.429 (10.90)	.300 (7.62)	.450 (11.43)
4414-328	4414-328LF*	28	21	1.390 (35.31)	1.300 (33.02)	.650 (16.51)	.429 (10.90)	.300 (7.62)	.450 (11.43)
4414-628*	4414-628LF*	28	18	1.400 (35.56)	1.300 (33.02)	.650 (16.51)	.650 (16.51)	.600 (15.24)	.750 (19.05)
4414-632*	4414-632LF*	32	10	1.600 (40.64)	1.500 (38.10)	.750 (19.05)	.650 (16.51)	.600 (15.24)	.750 (19.05)

* Consult factory for availability.

¹ Please order in multiples of stated package quantity.

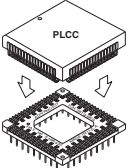
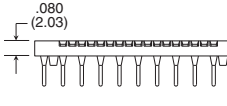


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 Tel.: 089/158 126-0
 www.infracor.de · info@infracor.de

PLCC Adapters with Murphy Circuits®

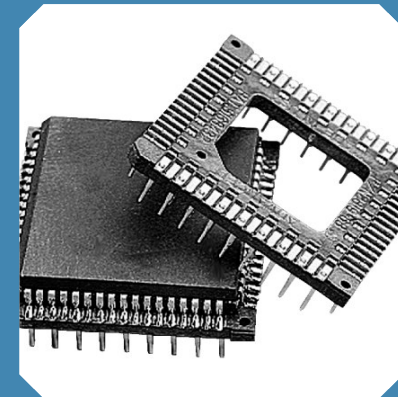
Adapters for JEDEC .050/(1.27mm) Pitch PLCCs (Leaded Type A)

Table of Models

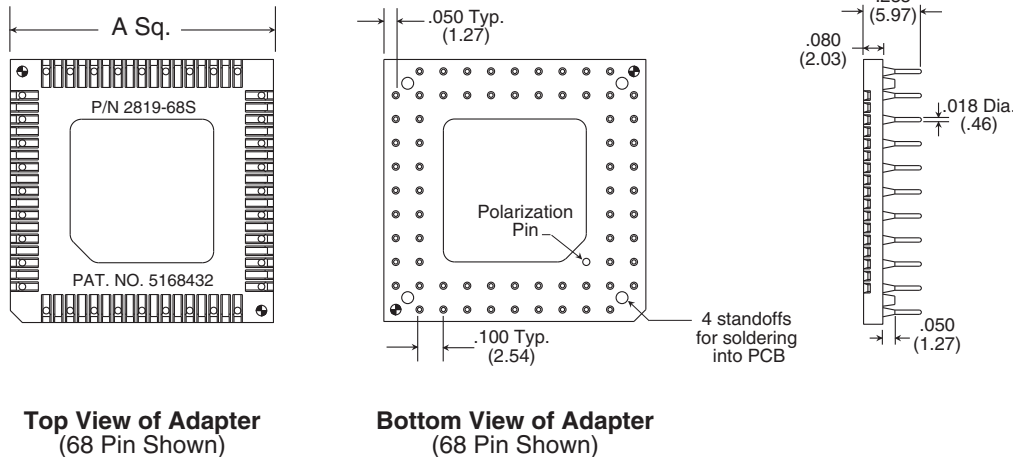
	<p>Description: PLCC to PGA Adapter (2819) Material: High Temp. Glass Filled Thermoplastic* Index: -60°C to 220°C (-76°F to 428°F)</p> <p>Device attach service available.</p>	
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*Note: This product is not RoHS Compliant.

Adapters



Dimensional Information



Top View of Adapter
(68 Pin Shown)

Bottom View of Adapter
(68 Pin Shown)

Features:

- Adapter allows PLCC devices to be solderable or socketable in a thru-hole application.
- Molded locating ribs aid in device placement.
- Ribs between “J” leads eliminate shorting.
- Adapts JEDEC PLCC packages to standard PGA footprints.
- .100/(2.54mm) pin to pin spacing allows more space for conductor runs on PCB.
- Polarization pin option available.
- Saves space (X, Y, and Z) when used with Advanced PGA (LIF) sockets.
- Allows testing with standard test clips.
- Standoffs aid soldering operation.
- Device attach services available.

Part Numbers

With Standoffs	With Polarization Pin & Standoffs	No. of Positions	A
2819-28S	2819-28SP	28	.500 (12.70)
2819-44S	2819-44SP	44	.800 (20.32)
2819-52S	2819-52SP	52	.900 (22.86)
2819-68S	2819-68SP	68	1.100 (27.94)
2819-84S	2819-84SP	84	1.300 (33.02)
2819-100S	2819-100SP	100	1.500 (38.10)
2819-124S	2819-124SP	124	1.800 (45.72)

Also available without standoff - consult factory.
 Consult factory for RoHS Compliant options.

Specifications:

Terminals:

Brass - Copper Alloy
(C36000) ASTM-B-16

Plating:

Tin/Lead over Nickel

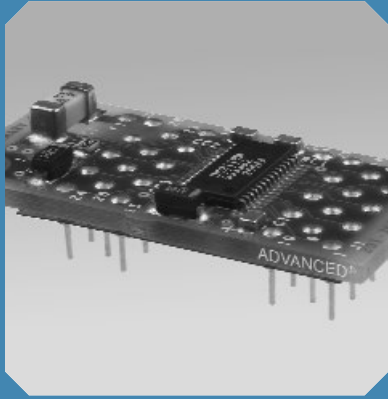
Circuit:

Copper Circuit, Tin/Lead Plated

Tin/Lead per MIL-P-81728
 Nickel per QQ-N-290



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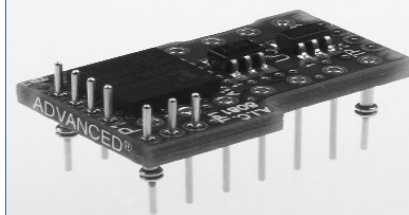
Advanced Interconnections Corp. has been providing custom interconnect solutions for 25 years. We specialize in IC package conversion, custom adapter cards with device correction or enhancements, test fixture boards, and other application-specific solutions. Our experienced application engineers and in-house vertical integration allow for an economical custom solution that often lowers total system design costs by eliminating the need to redesign or scrap existing boards while adding functionality to the end product.

- State-of-the-art in-house Surface Mount Technology (SMT) factory
- Device-attach services available
- In-house tape-and-reel capability
- Automated optical inspection
- Accurate device placement with vision-equipped pick and place equipment
- Testing, packaging, and all other services available
- JIT and ship-to-stock programs available
- Contact customer service for custom design assistance and application support

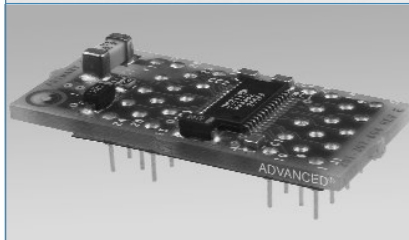
Features:

- Designed and produced to meet your specific mechanical and electrical requirements.
- Inclusion of passive components improves electrical performance and saves valuable PC board space.
- Enhanced sockets and adapters can be manufactured with single, double, and multi-layer circuitry.
- Standard and custom screw-machined terminals with several plating options.
- RoHS Compliant designs available.

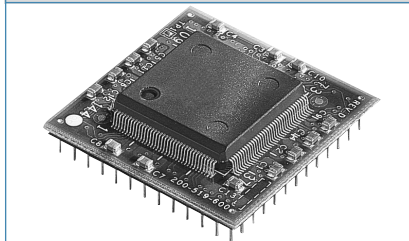
Custom Adapters



Product: [Enhanced Hybrid Adapter](#)
 Description: Adapter features custom pin design with stand-offs, passive and active components, and 0.50mm pitch BGA package device attach.

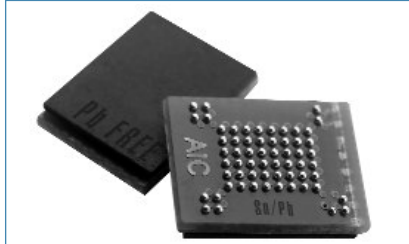


Product: [Enhanced Hybrid Adapter](#)
 Description: Custom adapter used to terminate lines going from a board to a back panel. Design includes both active and passive components including a custom semiconductor, resistors, and capacitors.



Product: [IC Package Conversion Adapter](#)
 Description: PQFP device to PGA footprint adapter designed with resistors and capacitors to add functionality.

Interposer



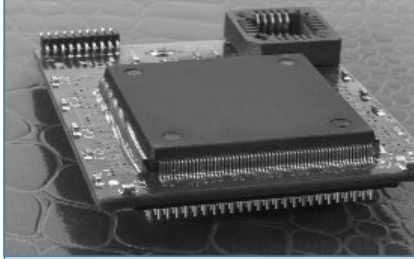
Product: [Lead-free to Tin/Lead BGA Interposer](#)
 Description: Maintain existing board profiles in RoHS Exempt applications when BGA devices change to lead-free packages. Custom interposer features eutectic Tin/Lead solder ball terminals which match existing board layout and solder profiles.

See page 14 for more information.

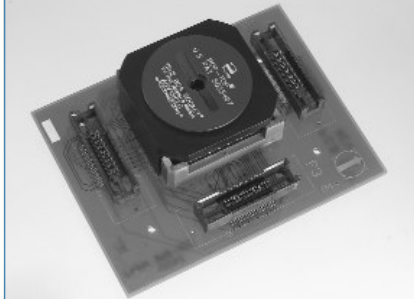


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Custom Connectors



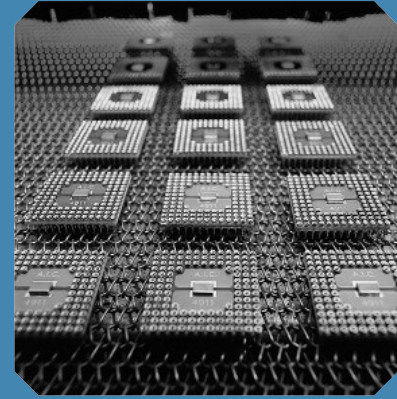
Product: **Custom Adapter Board**
 Description: This adapter board (daughter card) design includes a controller chip and cable assembly, without modifications to the signal integrity of the original chip. These enhancements allowed existing boards to be modified easily and cost-effectively, both for their original purpose and for new applications, adding options for customers in new target markets.



Product: **Test Fixture Board**
 Description: To enable faster testing of chips without having to solder them to adapters, Advanced developed an application-specific multilayer FR-4 test fixture board, incorporating a combination of three cable-to-board connectors to interface with the test system and an adaptation of our True BGA Socket™ into which the chip packages are inserted for testing.



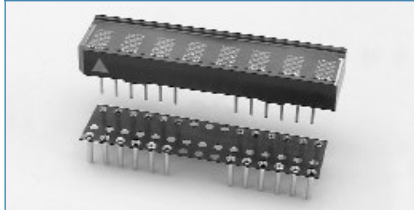
Product: **Surface Mount PGA Connector**
 Description: This surface mount, interstitial pin grid array (PGA) connector enables boards to be produced with fewer layers due to SMT design, eliminates the need for plated through holes, provides a corporate test board solution, and allows for more efficient, cost-effective production.



State-of-the-Art Design and Manufacturing Capabilities

- Excellon Drilling/Routing Machines
- Star Micronics CNC Swiss Type Screw Machine
- Nissei Precision Injection Molding Machines
- Matsui Dehumidifying Dryer
- Custom Automated Optical Inspection Vision System
- X-Ray Capability
- GenRad Tester

Custom Sockets

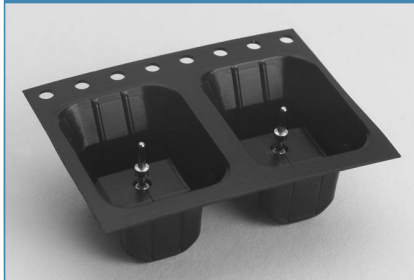


Product: **Custom LED Socket**
 Description: Allows LED to be plugged in after board is processed in a lead-free profile.
 Protects device from damage caused by high temperature processing.



Product: **Custom 6 Position Peel-A-Way® Socket**
 Description: This custom flex circuit socket features solder preform terminals in our patented Peel-A-Way® Removable Terminal Carrier. The design eliminated the need for hand loading terminals and wave soldering while meeting a low-profile specification and allowing complete solder joint visibility.

Custom Terminals



Product: **Custom Test Point Pins**
 Description: To reduce assembly time and injuries to employees who sometimes pierced their fingers on sharp test pins (square, pointed stick type) during hand loading and subsequent board handling, a leading OEM asked Advanced to design a safer, more cost-effective solution. A custom, screw-machined test point pin featuring a cylindrical design with rounded head and solder preform was supplied in tape and reel packaging.



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 Tel.: 089/158 126-0
 www.infracron.de · info@infracron.de



Features:

- High quality, screw-machined terminals with multi-finger contacts for superior reliability.
- Standard and custom designs available for SMT and thru-hole applications.
- EXPRESS delivery available on select terminals.
- Plating options available for RoHS compliant and exempt applications.
- Patented solder preform terminals eliminate the need for wave soldering in mixed technology applications.
- Complete line of EMC® insulated and non-insulated terminals and test jacks – data sheets available online only.

Specifications:

Material:

Terminal: Brass - Copper Alloy (C36000) ASTM-B-16
 Contact: Beryllium Copper - Copper Alloy (C17200) ASTM-B-194

Contact Plating:

G - Gold over Nickel
 T - Tin/Lead over Nickel

Terminal Plating:

G - Gold over Nickel
 M - Matte Tin over Nickel
 T - Tin/Lead over Nickel

Advanced® Terminals

		<p>Socket (Female) Terminals</p> <ul style="list-style-type: none"> • Screw-machined terminals with multi-finger contacts • Designed for use in molded, FR-4 or Peel-A-Way® Removable Terminal Carrier insulators • Consult factory for availability of loose terminals • Custom designs available • See pages 63-73
		<p>Adapter (Male) Terminals</p> <ul style="list-style-type: none"> • Screw-machined terminals • Designed for use in molded, FR-4 or Peel-A-Way® Removable Terminal Carrier insulators • Consult factory for availability of loose terminals • Custom designs available • See pages 74-79
		<p>Solder Preform Terminals</p> <ul style="list-style-type: none"> • Patented solder preform terminals eliminate the need for wave soldering in mixed technology applications • Designed for use in molded, FR-4 or Peel-A-Way® Removable Terminal Carrier insulators • Available with either standard Tin/Lead preforms or new lead-free Tin/Silver/Copper preforms • Custom designs available • See page 80

EMC® Terminals and Test Jacks



Insulated and Non-Insulated Terminals and Test Jacks

EMC Product Nurl-Loc® Design
 EMC Product Nurl-Loc® Insertion Tools

Non-Insulated Terminals

MIL-T-55155 (EMC Product NIT Series)
 Nurl-Loc® Design (EMC Product NIT Series)

Test Jacks

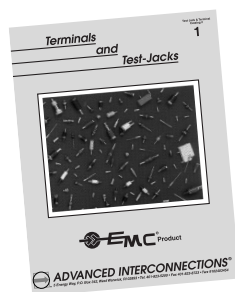
Non-Insulated Test Jacks (EMC Product NIJ Series)
 .040" and .080" Military & Commercial Test Jacks (EMC MTJ Series)
 Molded Banana and .080" Test Jacks (EMC Product BTJ Series)

Standoffs

Single Turret Standoff Terminals (EMC Product STS Series)
 Double Turret Standoff Terminals (EMC Product DTS Series)
 Straight Pin Standoff Terminals (EMC Product SPS Series)
 Bifurcated Pin Standoff Terminals (EMC Product BPS Series)
 Threaded & Tapped Hole Standoff Terminals (EMC Product TTS Series)
 MIL-T-55155 Standoff Terminals (EMC Product MST Series)

Feed-Thrus

Single Turret Feed-Thru Terminals (EMC Product STF Series)
 Double Turret Feed-Thru Terminals (EMC Product DTF Series)
 Bifurcated, Threaded and Tapped Hole Feed-Thru Terminals (EMC Product FT Series)
 Straight Pin and Threaded Body Feed-Thru Terminals (EMC Product FT Series)



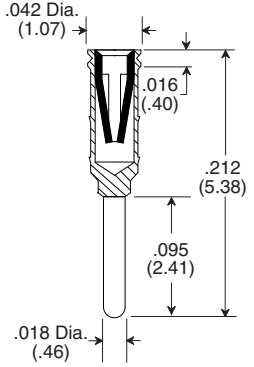
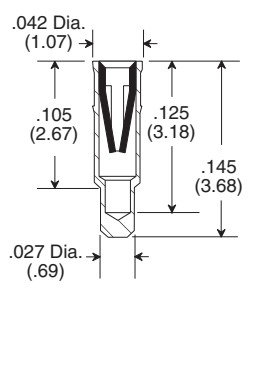
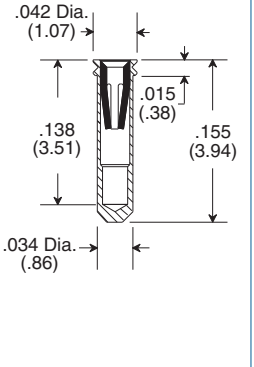
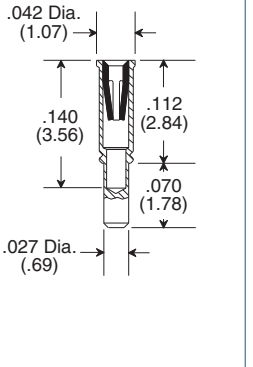
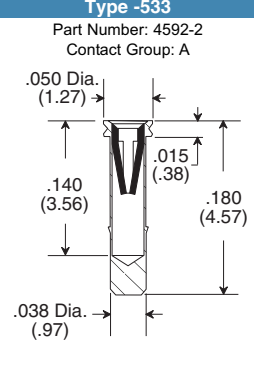
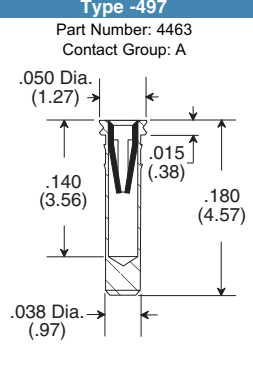
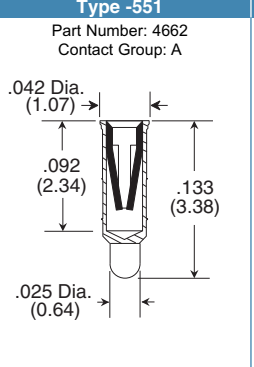
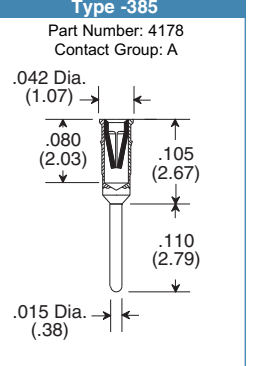
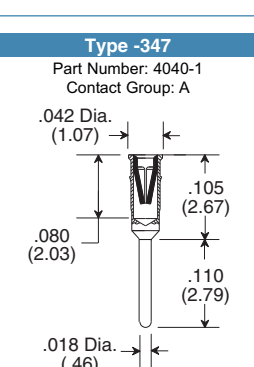
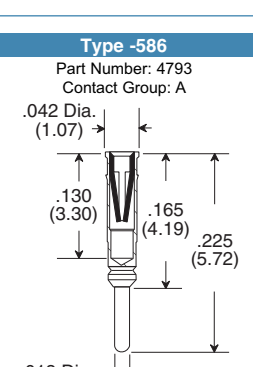
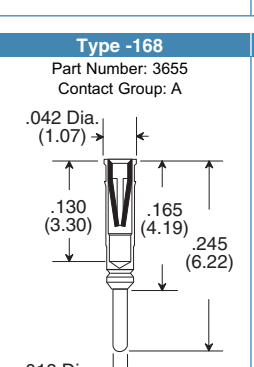
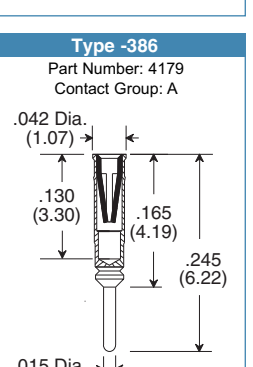
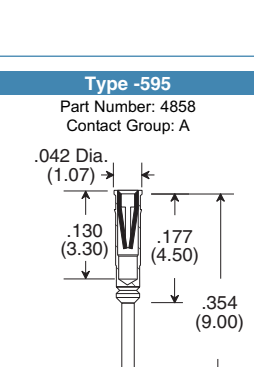
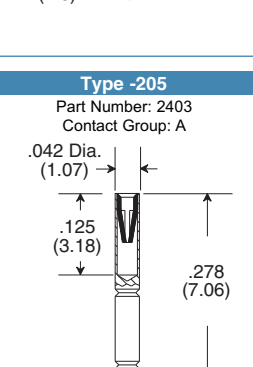
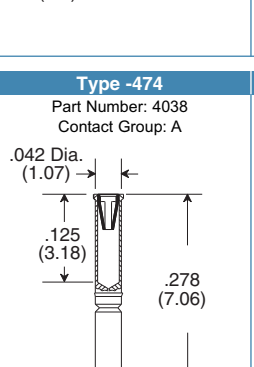
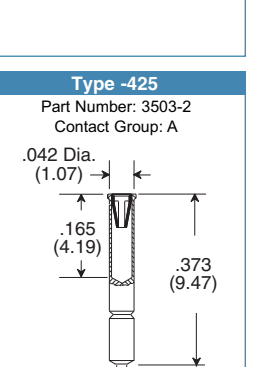
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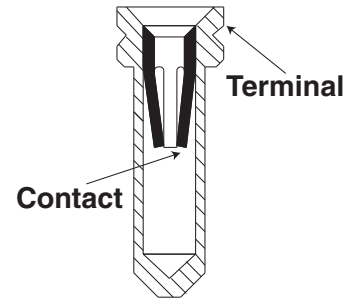


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Socket (Female) Terminals

Contact Acceptance Range .016/(.41mm) - .022/(.56mm) Dia. or .010/(.25mm) x .018/(.46mm) Rectangular Lead

Type -674	Type -529	Type -227	Type -281
Part Number: 5456 Contact Group: A 	Part Number: 4573 Contact Group: A 	Part Number: 2647 Contact Group: A 	Part Number: 3523 Contact Group: A 
Type -533	Type -497	Type -551	Type -385
Part Number: 4592-2 Contact Group: A 	Part Number: 4463 Contact Group: A 	Part Number: 4662 Contact Group: A 	Part Number: 4178 Contact Group: A 
Type -347	Type -586	Type -168	Type -386
Part Number: 4040-1 Contact Group: A 	Part Number: 4793 Contact Group: A 	Part Number: 3655 Contact Group: A 	Part Number: 4179 Contact Group: A 
Type -595	Type -205	Type -474	Type -425
Part Number: 4858 Contact Group: A 	Part Number: 2403 Contact Group: A 	Part Number: 4038 Contact Group: A 	Part Number: 3503-2 Contact Group: A 



Specifications:

Material:

Terminal: Brass - Copper Alloy (C36000) ASTM-B-16

Contact: Beryllium Copper - Copper Alloy (C17200) ASTM-B-194

Contact Plating:

G - Gold over Nickel
T - Tin/Lead over Nickel

Terminal Plating:

G - Gold over Nickel
M - Matte Tin over Nickel
T - Tin/Lead over Nickel

Gold per ASTM-B-488
Matte Tin per ASTM545-97
Tin/Lead per MIL-P-81728
Nickel per QQ-N-290

Note: For use in Peel-A-Way® Removable Terminal Carrier body types, select a terminal with a "V" groove.



Terminals not drawn to scale.

EXPRESS Delivery



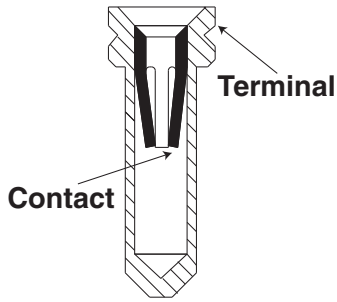
Terminals shown with the new EXPRESS symbol are available in most insulator body types with fast lead time. Some quantity and plating restrictions apply. Search our Distributor inventory online at www.advanced.com, or check with customer service for availability.



Infracor GmbH
Tel.: 089/158 126-0
www.infracor.de · info@infracor.de

Socket (Female) Terminals

Contact Acceptance Range .016/(.41mm) - .022/(.56mm) Dia. or .010/(.25mm) x .018/(.46mm) Rectangular Lead



Specifications:

Material:

Terminal: Brass - Copper Alloy (C36000) ASTM-B-16

Contact: Beryllium Copper - Copper Alloy (C17200) ASTM-B-194

Contact Plating:

G - Gold over Nickel
T - Tin/Lead over Nickel

Terminal Plating:

G - Gold over Nickel
M - Matte Tin over Nickel
T - Tin/Lead over Nickel

Gold per ASTM-B-488
Matte Tin per ASTM545-97
Tin/Lead per MIL-P-81728
Nickel per QQ-N-290

Note: For use in Peel-A-Way® Removable Terminal Carrier body types, select a terminal with a "V" groove.



Terminals not drawn to scale.

EXPRESS Delivery



Terminals shown with the new EXPRESS symbol are available in most insulator body types with fast lead time. Some quantity and plating restrictions apply. Search our Distributor inventory online at www.advanced.com, or check with customer service for availability.

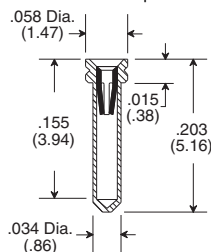
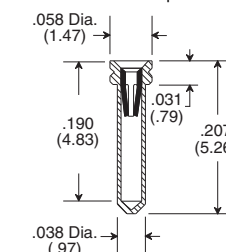
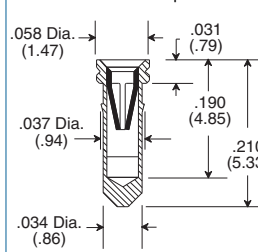
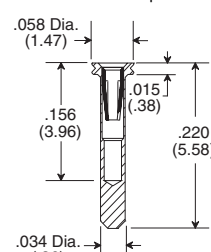
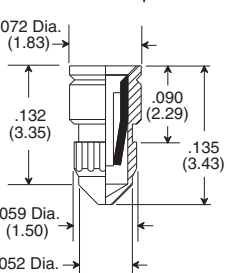
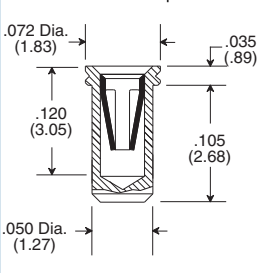
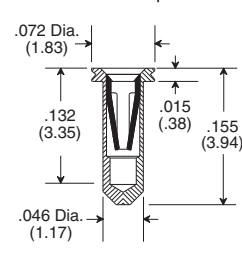
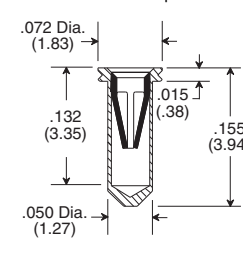
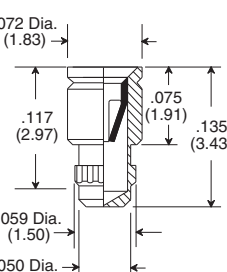
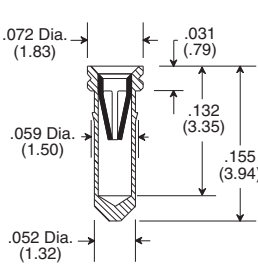
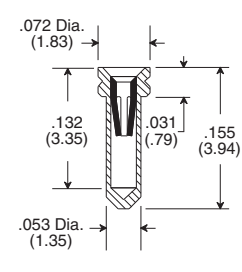
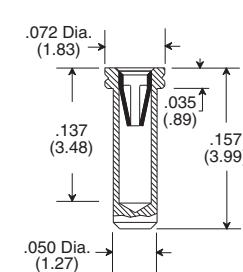
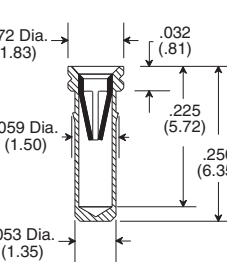
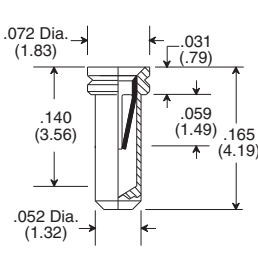
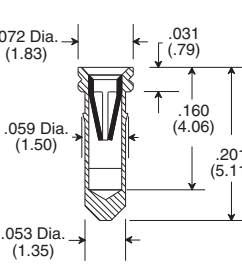
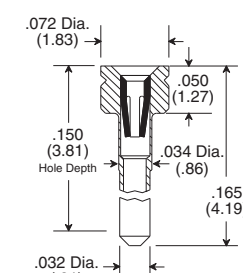


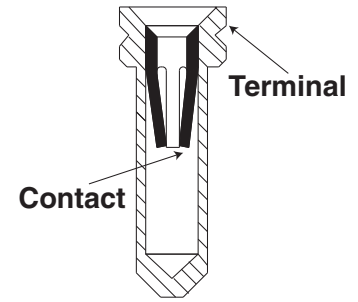
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www.infracron.de · info@infracron.de

Type -496	Type -505	Type -269	Type -550
Part Number: 4462 Contact Group: A 	Part Number: 4511 Contact Group: A 	Part Number: 3503-1 Contact Group: A 	Part Number: 4659 Contact Group: A
Type -491	Type -246	Type -294	Type -517
Part Number: 4427 Contact Group: A 	Part Number: 3257 Contact Group: A 	Part Number: 3784 Contact Group: A 	Part Number: 4520 Contact Group: A
Type -290	Type -85	Type -176	Type -210
Part Number: 3708 Contact Group: A 	Part Number: 1371 Contact Group: A 	Part Number: 2239 Contact Group: A 	Part Number: 2887 Contact Group: A
Type -350	Type -69	Type -428	
Part Number: 4041 Contact Group: A 	Part Number: 1401 Contact Group: A 	Part Number: 4316 Contact Group: A 	

Socket (Female) Terminals

Contact Acceptance Range .016/(.41mm) - .022/(.56mm) Dia. or .010/(.25mm) x .018/ (.46mm) Rectangular Lead

<p>Type -324 Part Number: 3208 Contact Group: A</p> 	<p>Type -190 Part Number: 2383 Contact Group: A</p> 	<p>Type -259 Part Number: 3354 Contact Group: A</p> 	<p>Type -842 Part Number: 6832 Contact Group: A</p> 
<p>Type -60 Part Number: 1408 Contact Group: C</p> 	<p>Type -335 Part Number: 3984 Contact Group: B</p> 	<p>Type -359 Part Number: 4076 Contact Group: C</p> 	<p>Type -282 Part Number: 3554 Contact Group: C</p> 
<p>Type -70 Part Number: 1678 Contact Group: C</p> 	<p>Type -237 Part Number: 3129 Contact Group: C</p> 	<p>Type -50 Part Number: 1242 Contact Group: C</p> 	<p>Type -353 Part Number: 4059 Contact Group: C</p> 
<p>Type -651 Part Number: 5242 Contact Group: C</p> 	<p>Type -84 Part Number: 1316 Contact Group: C</p> 	<p>Type -25 Part Number: 1093 Contact Group: C</p> 	<p>Type -73 Part Number: 1654 Contact Group: A</p> 



Specifications:

Material:

Terminal: Brass - Copper Alloy (C36000) ASTM-B-16

Contact: Beryllium Copper - Copper Alloy (C17200) ASTM-B-194

Contact Plating:

G - Gold over Nickel
T - Tin/Lead over Nickel

Terminal Plating:

G - Gold over Nickel
M - Matte Tin over Nickel
T - Tin/Lead over Nickel

Gold per ASTM-B-488
Matte Tin per ASTM545-97
Tin/Lead per MIL-P-81728
Nickel per QQ-N-290

Note: For use in Peel-A-Way® Removable Terminal Carrier body types, select a terminal with a "V" groove.



Terminals not drawn to scale.

EXPRESS Delivery



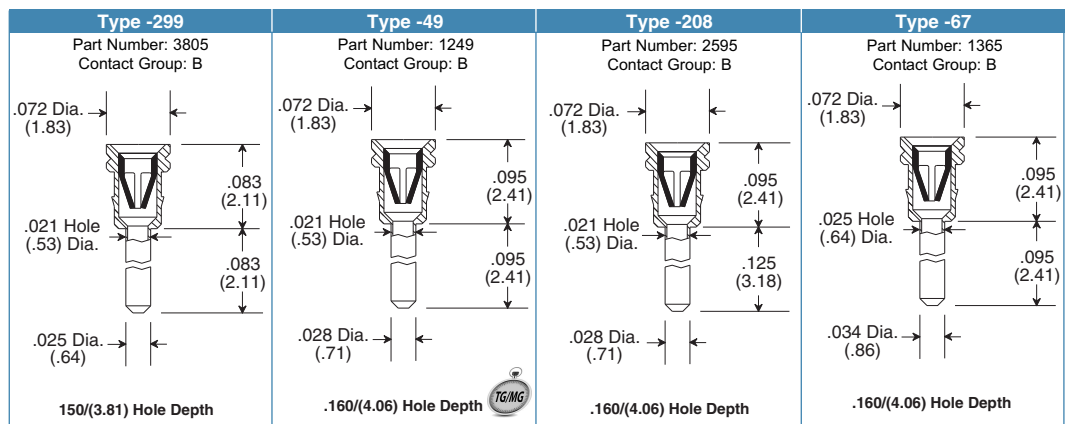
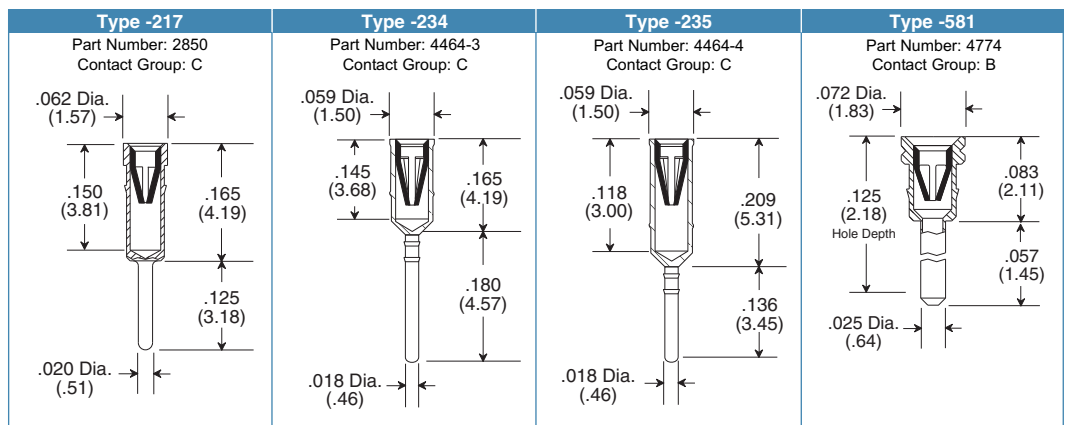
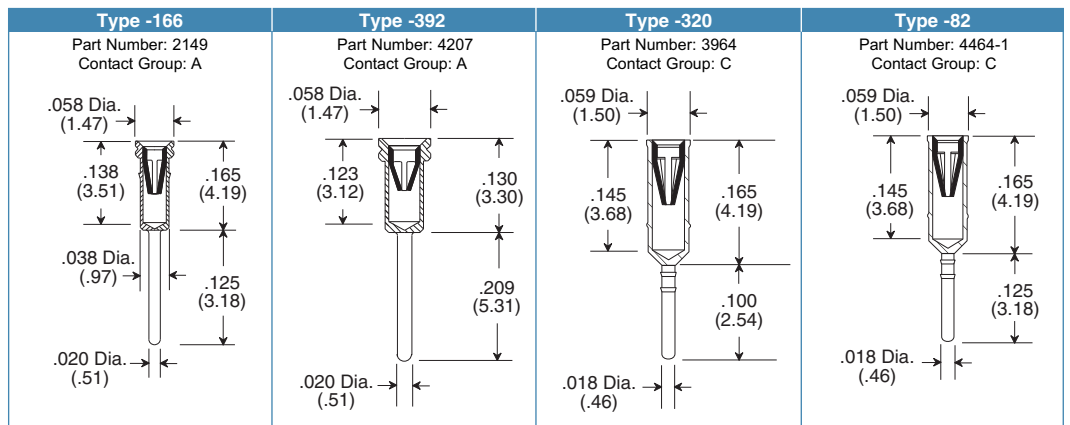
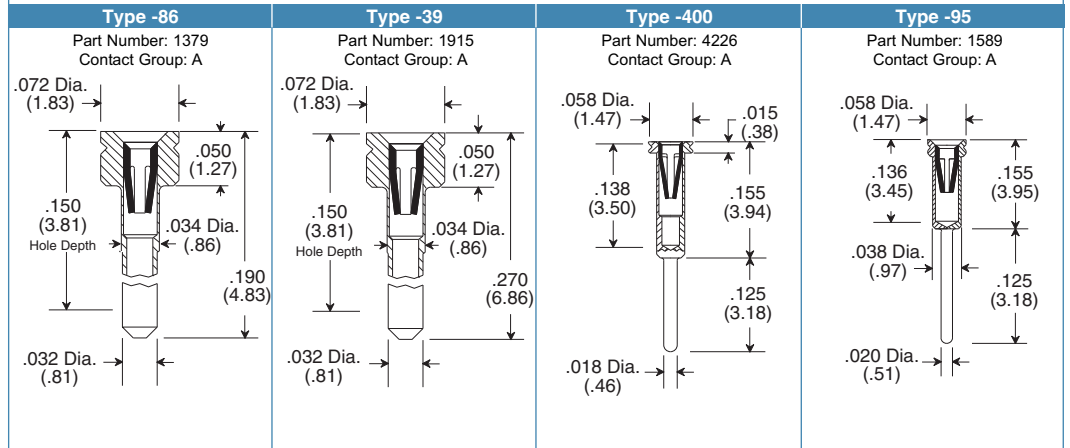
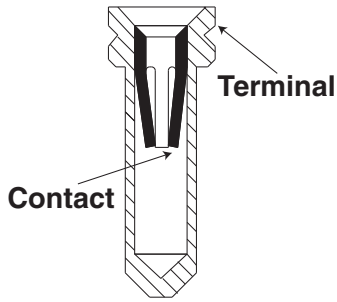
Terminals shown with the new EXPRESS symbol are available in most insulator body types with fast lead time. Some quantity and plating restrictions apply. Search our Distributor inventory online at www.advanced.com, or check with customer service for availability.



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Socket (Female) Terminals

Contact Acceptance Range .016/(.41mm) - .022/(.56mm) Dia. or .010/(.25mm) x .018/(.46mm) Rectangular Lead



Specifications:

Material:

Terminal: Brass - Copper Alloy (C36000) ASTM-B-16

Contact: Beryllium Copper - Copper Alloy (C17200) ASTM-B-194

Contact Plating:

G - Gold over Nickel
T - Tin/Lead over Nickel

Terminal Plating:

G - Gold over Nickel
M - Matte Tin over Nickel
T - Tin/Lead over Nickel

Gold per ASTM-B-488

Matte Tin per ASTM545-97

Tin/Lead per MIL-P-81728

Nickel per QQ-N-290

Note: For use in Peel-A-Way® Removable Terminal Carrier body types, select a terminal with a "V" groove.



Terminals not drawn to scale.

EXPRESS Delivery



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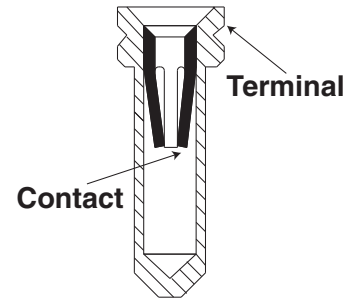


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www.infracron.de info@infracron.de

Socket (Female) Terminals

Contact Acceptance Range .016/(.41mm) - .022/(.56mm) Dia. or .010/(.25mm) x .018/(.46mm) Rectangular Lead

Type -448	Type -136	Type -04	Type -38
Part Number: 4417 Contact Group: B 	Part Number: 1828 Contact Group: B 	Part Number: 1124 Contact Group: C 	Part Number: 1104 Contact Group: C
Type -358	Type -500	Type -148	Type -51
Part Number: 4071 Contact Group: C 	Part Number: 4445 Contact Group: C 	Part Number: 1922 Contact Group: C 	Part Number: 1282 Contact Group: C
Type -364	Type -285	Type -218	Type -243
Part Number: 4095 Contact Group: C 	Part Number: 3578 Contact Group: C 	Part Number: 3023 Contact Group: C 	Part Number: 3199 Contact Group: C
Type -537	Type -384	Type -242	Type -01
Part Number: 4613 Contact Group: C 	Part Number: 4177 Contact Group: C 	Part Number: 3219 Contact Group: C 	Part Number: 1003 Contact Group: C



Specifications:

Material:

Terminal: Brass - Copper Alloy (C36000) ASTM-B-16

Contact: Beryllium Copper - Copper Alloy (C17200) ASTM-B-194

Contact Plating:

G - Gold over Nickel
T - Tin/Lead over Nickel

Terminal Plating:

G - Gold over Nickel
M - Matte Tin over Nickel
T - Tin/Lead over Nickel

Gold per ASTM-B-488
Matte Tin per ASTM545-97
Tin/Lead per MIL-P-81728
Nickel per QQ-N-290

Note: For use in Peel-A-Way® Removable Terminal Carrier body types, select a terminal with a "V" groove.



Terminals not drawn to scale.

EXPRESS Delivery



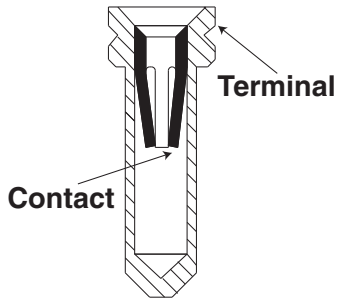
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Socket (Female) Terminals

Contact Acceptance Range .016/(.41mm) - .022/(.56mm) Dia. or .010/(.25mm) x .018/(.46mm) Rectangular Lead



Specifications:

Material:

Terminal: Brass - Copper Alloy (C36000) ASTM-B-16

Contact: Beryllium Copper - Copper Alloy (C17200) ASTM-B-194

Contact Plating:

G - Gold over Nickel
T - Tin/Lead over Nickel

Terminal Plating:

G - Gold over Nickel
M - Matte Tin over Nickel
T - Tin/Lead over Nickel

Gold per ASTM-B-488
Matte Tin per ASTM545-97
Tin/Lead per MIL-P-81728
Nickel per QQ-N-290

Note: For use in Peel-A-Way® Removable Terminal Carrier body types, select a terminal with a "V" groove.



Terminals not drawn to scale.

EXPRESS Delivery

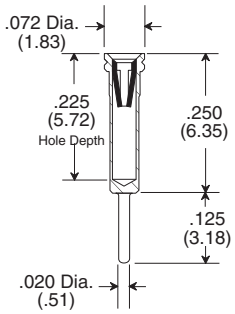
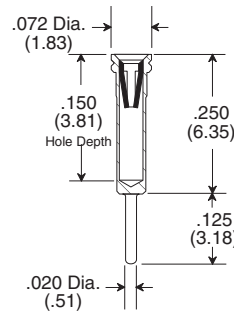
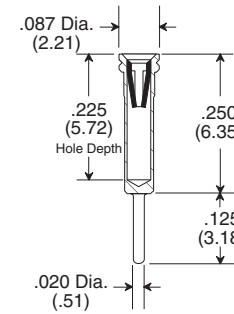
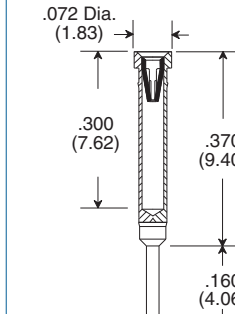
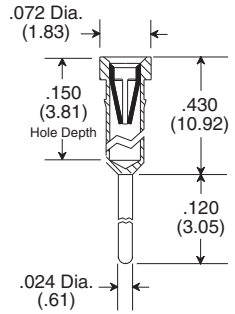
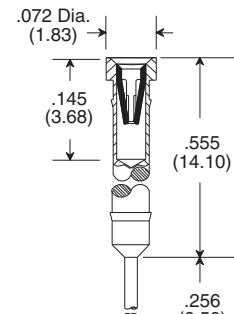
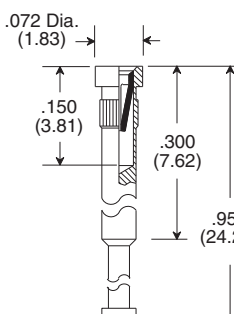
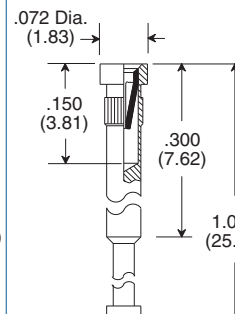
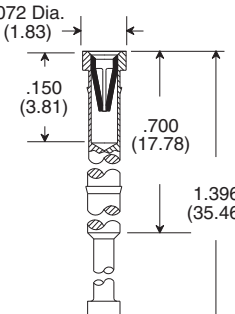
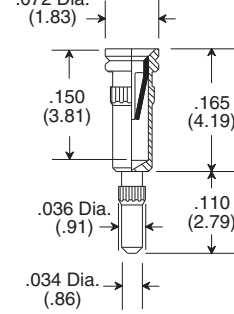
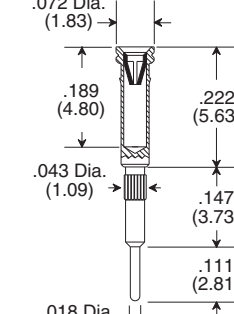
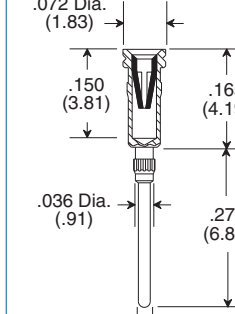


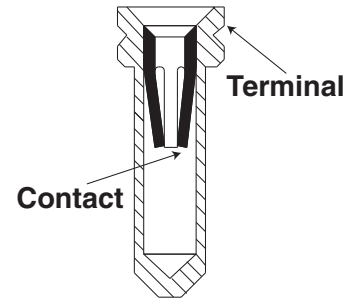
Terminals shown with the new EXPRESS symbol are available in most insulator body types with fast lead time. Some quantity and plating restrictions apply. Search our Distributor inventory online at www.advanced.com, or check with customer service for availability.

Type -33	Type -29	Type -87	Type -45
Part Number: 1106 Contact Group: C 	Part Number: 1094 Contact Group: C 	Part Number: 1403 Contact Group: C 	Part Number: 1326 Contact Group: C
Type -178	Type -383	Type -487	Type -56
Part Number: 2241 Contact Group: C 	Part Number: 4164 Contact Group: C 	Part Number: 4420 Contact Group: C 	Part Number: 1255 Contact Group: C
Type -30	Type -48	Type -223	Type -333
Part Number: 1125 Contact Group: C 	Part Number: 1214 Contact Group: C 	Part Number: 2992 Contact Group: C 	Part Number: 3715 Contact Group: C

Socket (Female) Terminals

Contact Acceptance Range .016/(.41mm) - .022/(.56mm) Dia. or .010/(.25mm) x .018/(.46mm) Rectangular Lead

Type -488	Type -90	Type -577	Type -346
Part Number: 4422 Contact Group: C 	Part Number: 1374 Contact Group: C 	Part Number: 4689-2 Contact Group: C 	Part Number: 4036 Contact Group: C 
Type -141	Type -373	Type -382	Type -72
Part Number: 1928 Contact Group: C 	Part Number: 4134 Contact Group: C 	Part Number: 4163 Contact Group: C 	Part Number: 1066 Contact Group: C 
Type -372	Type -05	Type -240	Type -191
Part Number: 4133 Contact Group: C 	Part Number: 1028 Contact Group: C 	Part Number: 3151 Contact Group: C 	Part Number: 2390 Contact Group: C 



Specifications:

Material:

Terminal: Brass - Copper Alloy (C36000) ASTM-B-16

Contact: Beryllium Copper - Copper Alloy (C17200) ASTM-B-194

Contact Plating:

G - Gold over Nickel
T - Tin/Lead over Nickel

Terminal Plating:

G - Gold over Nickel
M - Matte Tin over Nickel
T - Tin/Lead over Nickel

Gold per ASTM-B-488
Matte Tin per ASTM545-97
Tin/Lead per MIL-P-81728
Nickel per QQ-N-290

Note: For use in Peel-A-Way® Removable Terminal Carrier body types, select a terminal with a "V" groove.



Terminals not drawn to scale.

EXPRESS Delivery



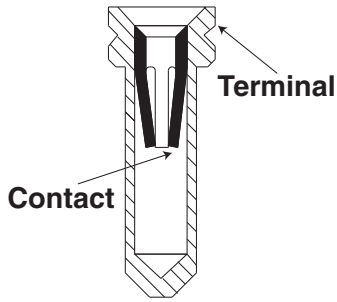
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Socket (Female) Terminals

Contact Acceptance Range .016/(.41mm) - .022/(.56mm) Dia. or .010/(.25mm) x .018/(.46mm) Rectangular Lead



Type -343	Type -275	Type -135	Type -74
Part Number: 4024 Contact Group: C	Part Number: 3006 Contact Group: C	Part Number: 1830 Contact Group: C	Part Number: 1129 Contact Group: C
<p>.072 Dia. (1.83) .150 (3.81) .036 Dia. (.91) .165 (4.19) .750 (19.05) .020 Dia. (.051)</p>	<p>.072 Dia. (1.83) .136 (3.45) Hole Depth .165 (4.19) .100 (2.54) .180 (4.57) .018 Dia. (.46)</p>	<p>.072 Dia. (1.83) .145 (3.68) .020 (.51) .125 (3.18) .045 (1.14) .018 Dia. (.46)</p>	<p>.072 Dia. (1.83) .120 (3.05) .030 Dia. (.76) .032 (.81) .130 (3.30) .045 (1.14) .018 Dia. (.46) .150/(3.81) Hole Depth</p>

Specifications:

Material:

Terminal: Brass - Copper Alloy (C36000) ASTM-B-16

Contact: Beryllium Copper - Copper Alloy (C17200) ASTM-B-194

Contact Plating:

G - Gold over Nickel
T - Tin/Lead over Nickel

Terminal Plating:

G - Gold over Nickel
M - Matte Tin over Nickel
T - Tin/Lead over Nickel

Gold per ASTM-B-488
Matte Tin per ASTM545-97
Tin/Lead per MIL-P-81728
Nickel per QQ-N-290

Note: For use in Peel-A-Way® Removable Terminal Carrier body types, select a terminal with a "V" groove.



Terminals not drawn to scale.

EXPRESS Delivery

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Socket (Female) Terminals

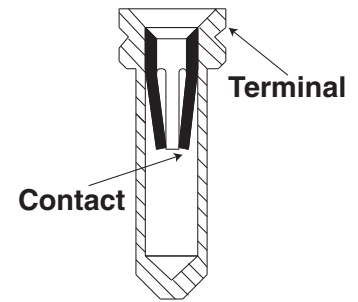
Contact Acceptance Range .022/(.56mm) - .032/(.81mm) Dia.

Type -28	Type -102	Type -301	Type -405
Part Number: 1019 Contact Group: D	Part Number: 1721 Contact Group: D	Part Number: 3818 Contact Group: D	Part Number: 4251 Contact Group: D
<p>.085 Dia. (2.16) .070 Dia. (1.78) .185 (4.70) .125 (3.18) .020 Dia. (.51) .160/(4.06) Hole Depth</p>	<p>.093 Dia. (2.36) .030 (.76) .210 (5.33) .250 (6.35) .068 Dia. (1.73)</p>	<p>.072 Dia. (1.83) .160 (4.06) .015 (.38) .178 (4.52) .055 Dia. (1.40)</p>	<p>.079 Dia. (2.01) .015 (.38) .061 Dia. (1.55) .195 (4.95) .057 Dia. (1.45) .185/(4.70) Hole Depth</p>
Type -563	Type -570	Type -770	Type -843
Part Number: 4634-4 Contact Group: D	Part Number: 4689 Contact Group: D	Part Number: 5902 Contact Group: D1	Part Number: 8031 Contact Group: D
<p>.076 Dia. (1.93) .070 Dia. (1.78) .340 (8.64) .103 (2.62) .060 Dia. (1.52) .290/(7.37) Hole Depth</p>	<p>.087 Dia. (2.21) .031 (.79) .225 (5.72) .250 (6.35) .125 (3.18) .020 Dia. (.51)</p>	<p>.072 Dia. (1.83) .183 (4.65) .163 (4.14) Hole Depth .125 (3.18) .020 Dia. (.51)</p>	<p>.093 Dia. (2.36) .031 (.79) .289 (7.34) .068 Dia. (1.73)</p>

Socket (Female) Terminals

Contact Acceptance Range .025/(.64mm) - .037/(.94mm) Dia. or .025/(.64mm) Square Lead

Type -284	Type -328	Type -332	Type -351
Part Number: 3501 Contact Group: D1	Part Number: 3409 Contact Group: D1	Part Number: 3844 Contact Group: D1	Part Number: 4074 Contact Group: D1
	.160/(4.06) Hole Depth	.225/(5.72) Hole Depth	.225/(5.72) Hole Depth
Type -483	Type -365	Type -585	Type -582
Part Number: 4079-1 Contact Group: D1	Part Number: 4097 Contact Group: D1	Part Number: 4789 Contact Group: D1	Part Number: 4775 Contact Group: D1
	.160/(4.06) Hole Depth	.225/(5.72) Hole Depth	



Specifications:

Material:

Terminal: Brass - Copper Alloy (C36000) ASTM-B-16

Contact: Beryllium Copper - Copper Alloy (C17200) ASTM-B-194

Contact Plating:

G - Gold over Nickel
T - Tin/Lead over Nickel

Terminal Plating:

G - Gold over Nickel
M - Matte Tin over Nickel
T - Tin/Lead over Nickel

Gold per ASTM-B-488
Matte Tin per ASTM545-97
Tin/Lead per MIL-P-81728
Nickel per QQ-N-290

Note: For use in Peel-A-Way® Removable Terminal Carrier body types, select a terminal with a "V" groove.



Terminals not drawn to scale.

EXPRESS Delivery



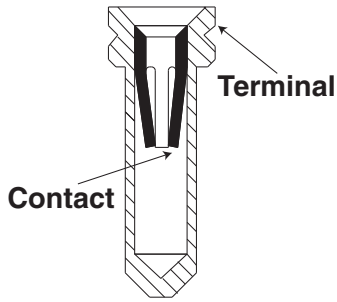
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Socket (Female) Terminals

Contact Acceptance Range .032/(.81mm) - .047/(1.19mm) Dia.



Specifications:

Material:

Terminal: Brass - Copper Alloy (C36000) ASTM-B-16

Contact: Beryllium Copper - Copper Alloy (C17200) ASTM-B-194

Contact Plating:

G - Gold over Nickel
T - Tin/Lead over Nickel

Terminal Plating:

G - Gold over Nickel
M - Matte Tin over Nickel
T - Tin/Lead over Nickel

Gold per ASTM-B-488
Matte Tin per ASTM545-97
Tin/Lead per MIL-P-81728
Nickel per QQ-N-290

Note: For use in Peel-A-Way® Removable Terminal Carrier body types, select a terminal with a "V" groove.

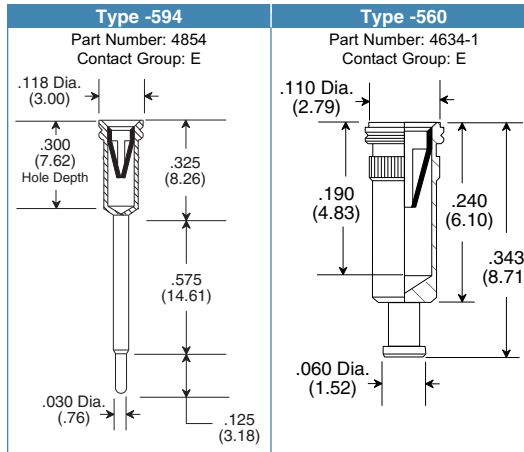
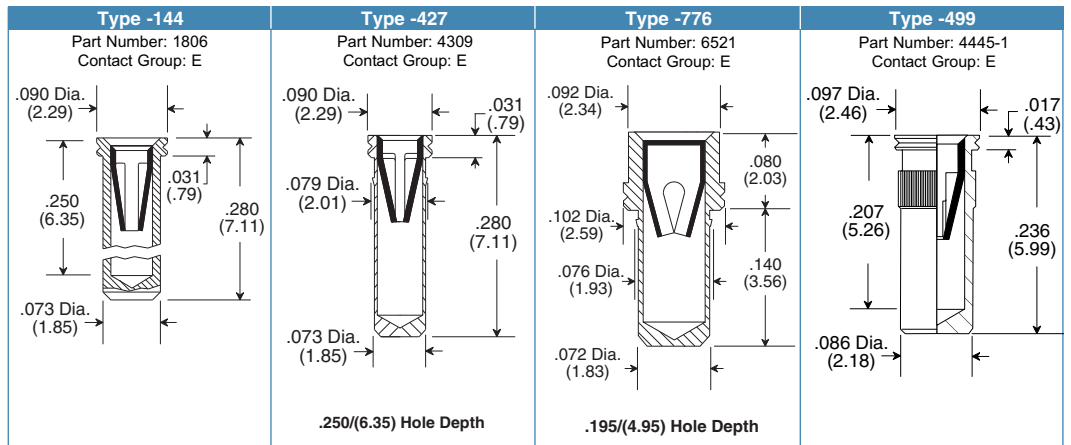
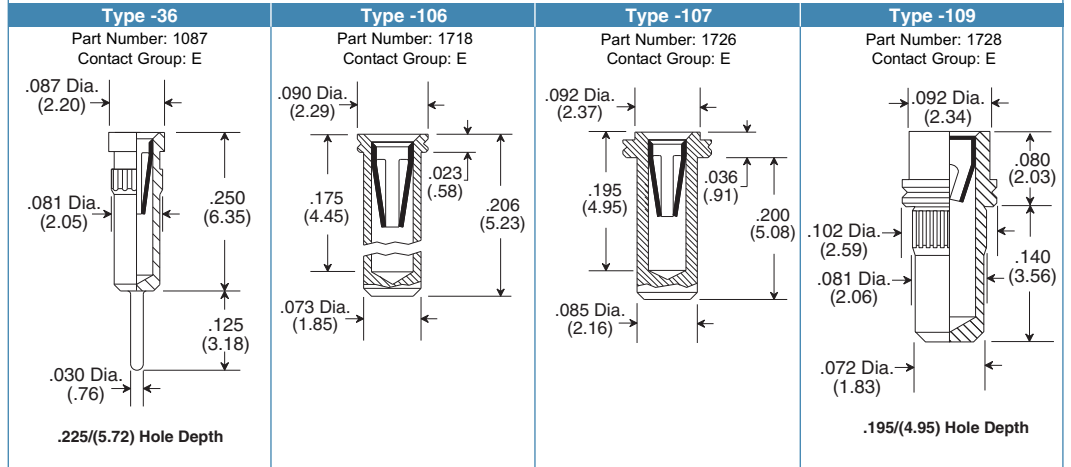


Terminals not drawn to scale.

EXPRESS Delivery

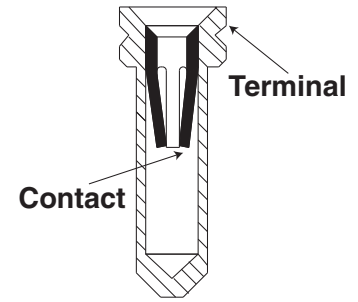
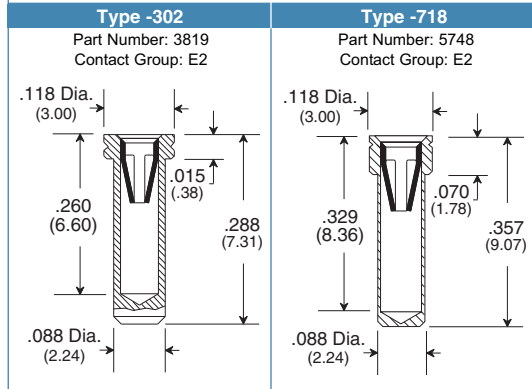


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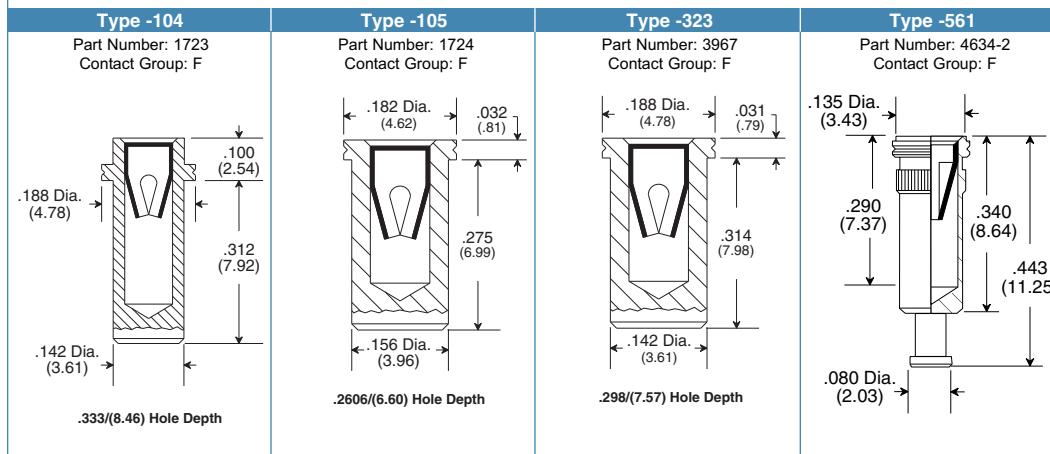


Socket (Female) Terminals

Contact Acceptance Range .040/(1.02mm) - .060/(1.52mm) Dia.



Contact Acceptance Range .065/(1.65mm) - .082/(2.08mm) Dia.



Specifications:

Material:

Terminal: Brass - Copper Alloy (C36000) ASTM-B-16

Contact: Beryllium Copper - Copper Alloy (C17200) ASTM-B-194

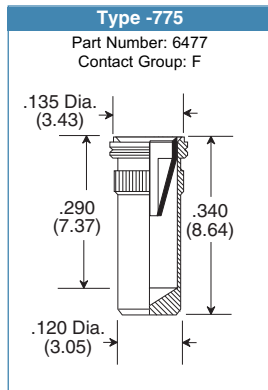
Contact Plating:

G - Gold over Nickel
T - Tin/Lead over Nickel

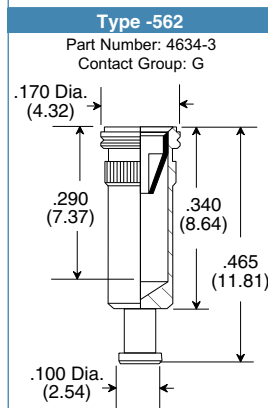
Terminal Plating:

G - Gold over Nickel
M - Matte Tin over Nickel
T - Tin/Lead over Nickel

Gold per ASTM-B-488
Matte Tin per ASTM545-97
Tin/Lead per MIL-P-81728
Nickel per QQ-N-290



Contact Acceptance Range .084/(2.135mm) - .102/(2.59mm) Dia.



Note: For use in Peel-A-Way® Removable Terminal Carrier body types, select a terminal with a "V" groove.



Terminals not drawn to scale.

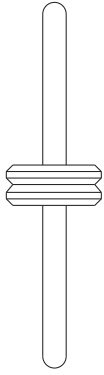
EXPRESS Delivery



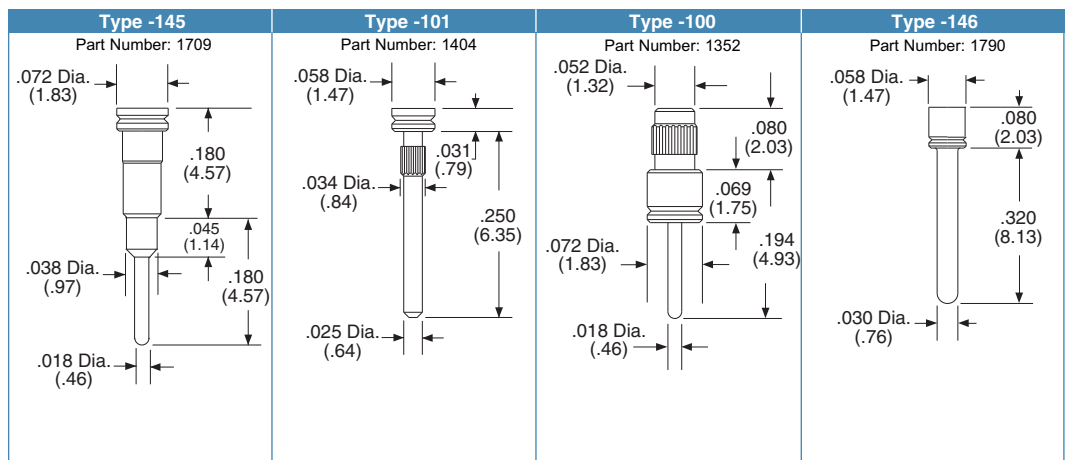
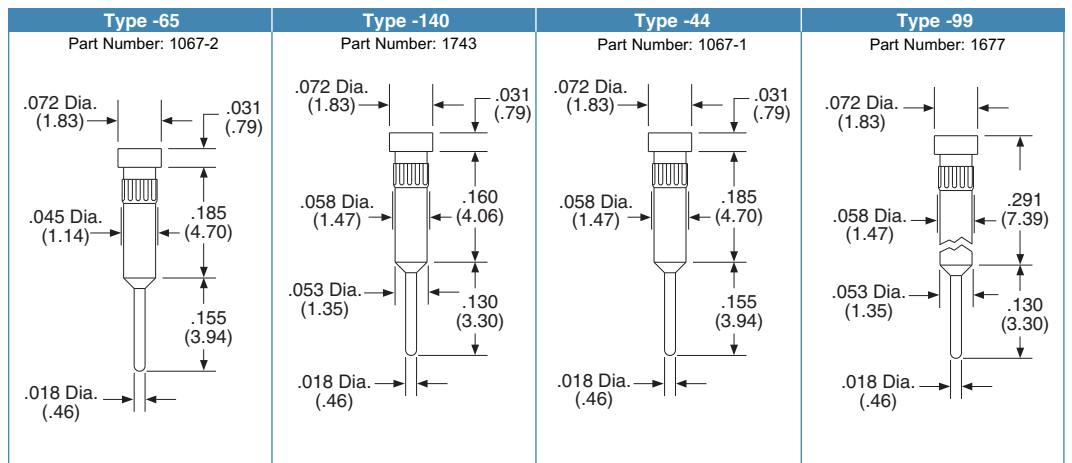
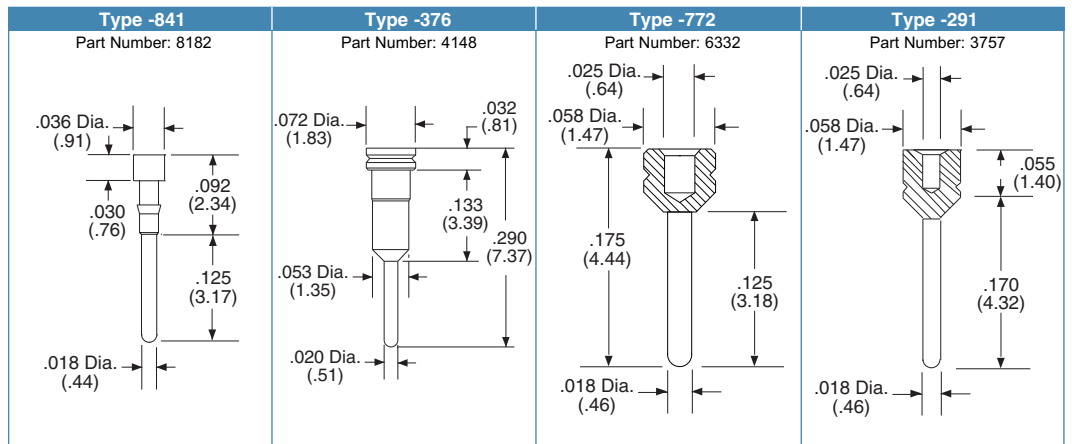
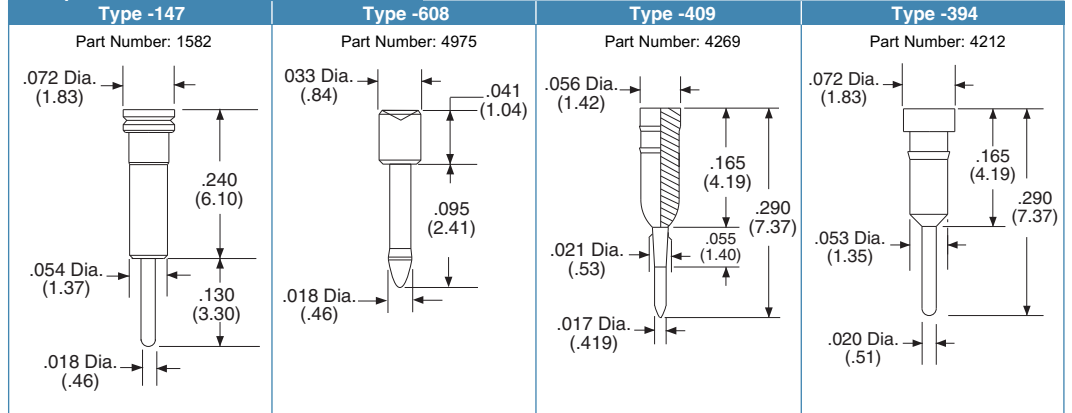
Terminals shown with the new EXPRESS symbol are available in most insulator body types with fast lead time. Some quantity and plating restrictions apply. Search our Distributor inventory online at www.advanced.com, or check with customer service for availability.



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Adapter (Male) Terminals



Specifications:

Material:

Terminal: Brass - Copper Alloy (C36000) ASTM-B-16

Terminal Plating:

- G - Gold over Nickel
- M - Matte Tin over Nickel
- T - Tin/Lead over Nickel

Gold per ASTM-B-488
Matte Tin per ASTM545-97
Tin/Lead per MIL-P-81728
Nickel per QQ-N-290

Note: For use in Peel-A-Way® Removable Terminal Carrier body types, select a terminal with a "V" groove.



Terminals not drawn to scale.

EXPRESS Delivery

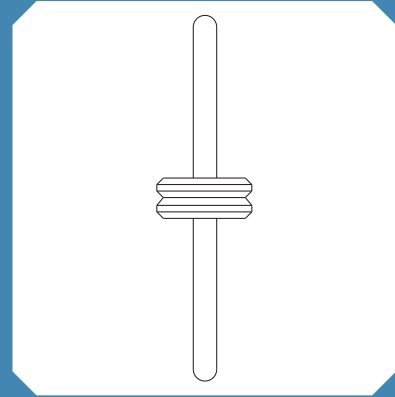


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Adapter (Male) Terminals			
Type -337 Part Number: 3973 	Type -336 Part Number: 3972 	Type -603 Part Number: 4863 	Type -525 Part Number: 4543-1
Type -526 Part Number: 4545-1 	Type -583 Part Number: 4735-1 	Type -574 Part Number: 4737-1 	Type -575 Part Number: 4738-1
Type -593 Part Number: 4835 	Type -576 Part Number: 4747-1 	Type -558 Part Number: 4298-1 	Type -786 Part Number: 7800
Type -349 Part Number: 4054 	Type -137 Part Number: 1826 	Type -355 Part Number: 4062 	Type -571 Part Number: 4714



Specifications:

Material:

Terminal: Brass - Copper Alloy (C36000) ASTM-B-16

Terminal Plating:

- G - Gold over Nickel
- M - Matte Tin over Nickel
- T - Tin/Lead over Nickel

Gold per ASTM-B-488
 Matte Tin per ASTM545-97
 Tin/Lead per MIL-P-81728
 Nickel per QQ-N-290

Note: For use in Peel-A-Way® Removable Terminal Carrier body types, select a terminal with a "V" groove.



Terminals not drawn to scale.

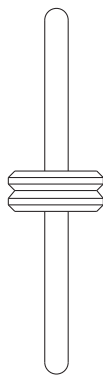
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Adapter (Male) Terminals

<p>Type -260 Part Number: 3382</p>	<p>Type -167 Part Number: 2084</p>	<p>Type -238 Part Number: 3221</p>	<p>Type -131 Part Number: 2527-1</p>
<p>Type -321 Part Number: 2527-2</p>	<p>Type -322 Part Number: 2527-3</p>	<p>Type -165 Part Number: 2184</p>	<p>Type -339 Part Number: 2184-2</p>
<p>Type -340 Part Number: 2184-3</p>	<p>Type -378 Part Number: 1364-6</p>	<p>Type -79 Part Number: 1364-1</p>	<p>Type -80 Part Number: 1364-2</p>
<p>Type -81 Part Number: 1364-3</p>	<p>Type -186 Part Number: 1364-4</p>	<p>Type -393 Part Number: 4227-1</p>	<p>Type -338 Part Number: 3997</p>

Specifications:

Material:

Terminal: Brass - Copper Alloy (C36000) ASTM-B-16

Terminal Plating:

G - Gold over Nickel
M - Matte Tin over Nickel
T - Tin/Lead over Nickel

Gold per ASTM-B-488
Matte Tin per ASTM545-97
Tin/Lead per MIL-P-81728
Nickel per QQ-N-290

Note: For use in Peel-A-Way® Removable Terminal Carrier body types, select a terminal with a "V" groove.



Terminals not drawn to scale.

EXPRESS Delivery

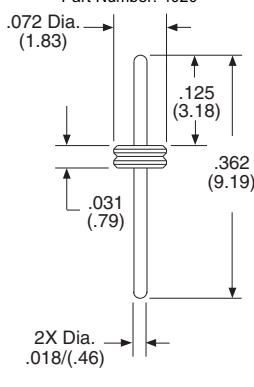
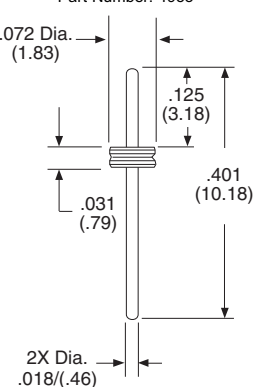
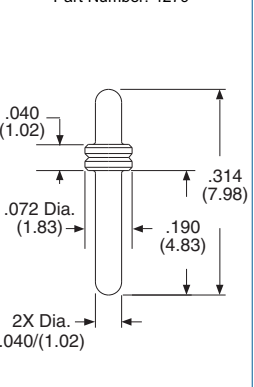
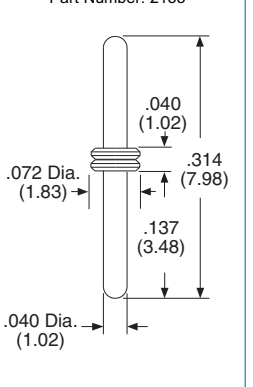
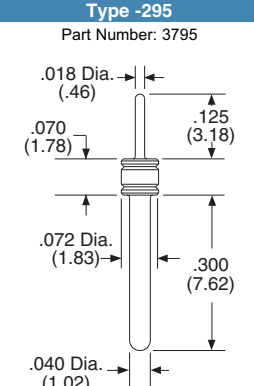
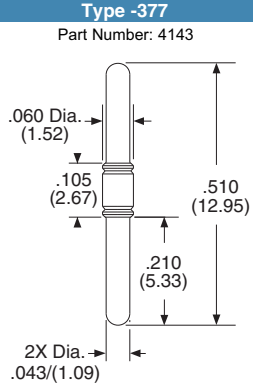
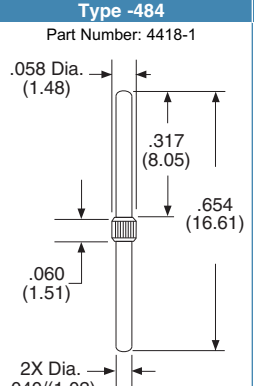
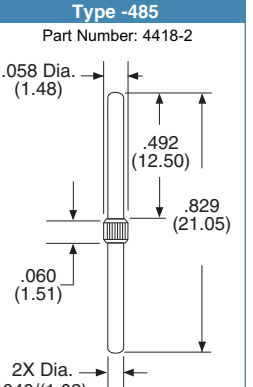
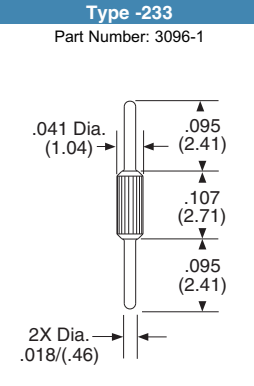
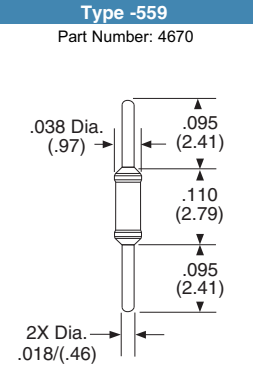
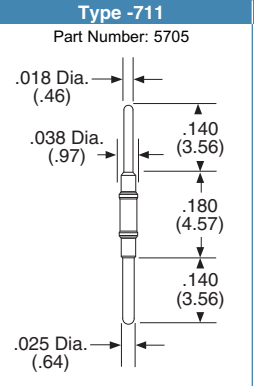
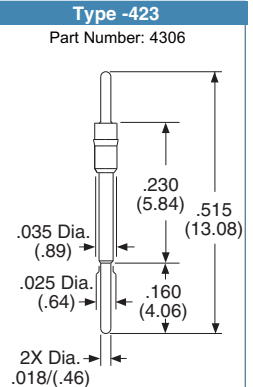
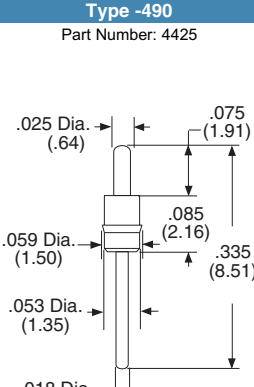
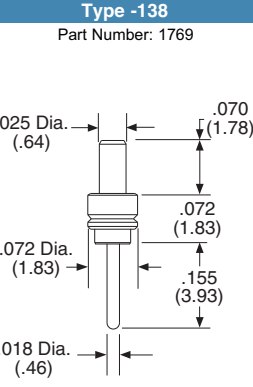
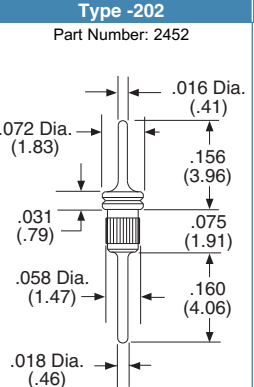
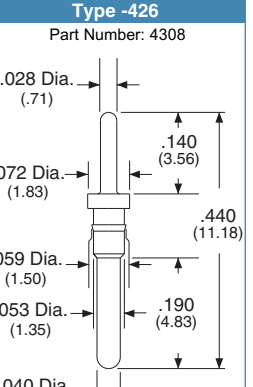


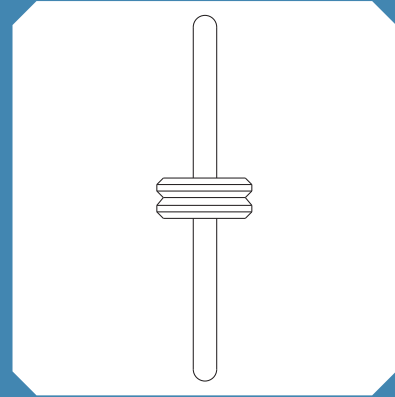
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Infracron GmbH
Tel.: 089/158 126-0
www.infracron.de info@infracron.de

Adapter (Male) Terminals

<p>Type -341 Part Number: 4020</p> 	<p>Type -606 Part Number: 4953</p> 	<p>Type -413 Part Number: 4279</p> 	<p>Type -169 Part Number: 2155</p> 
<p>Type -295 Part Number: 3795</p> 	<p>Type -377 Part Number: 4143</p> 	<p>Type -484 Part Number: 4418-1</p> 	<p>Type -485 Part Number: 4418-2</p> 
<p>Type -233 Part Number: 3096-1</p> 	<p>Type -559 Part Number: 4670</p> 	<p>Type -711 Part Number: 5705</p> 	<p>Type -423 Part Number: 4306</p> 
<p>Type -490 Part Number: 4425</p> 	<p>Type -138 Part Number: 1769</p> 	<p>Type -202 Part Number: 2452</p> 	<p>Type -426 Part Number: 4308</p> 



Specifications:

Material:

Terminal: Brass - Copper Alloy (C36000) ASTM-B-16

Terminal Plating:

G - Gold over Nickel
M - Matte Tin over Nickel
T - Tin/Lead over Nickel

Gold per ASTM-B-488
Matte Tin per ASTM545-97
Tin/Lead per MIL-P-81728
Nickel per QQ-N-290

Note: For use in Peel-A-Way® Removable Terminal Carrier body types, select a terminal with a "V" groove.



Terminals not drawn to scale.

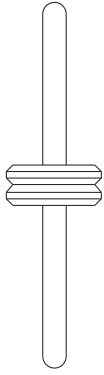
EXPRESS Delivery



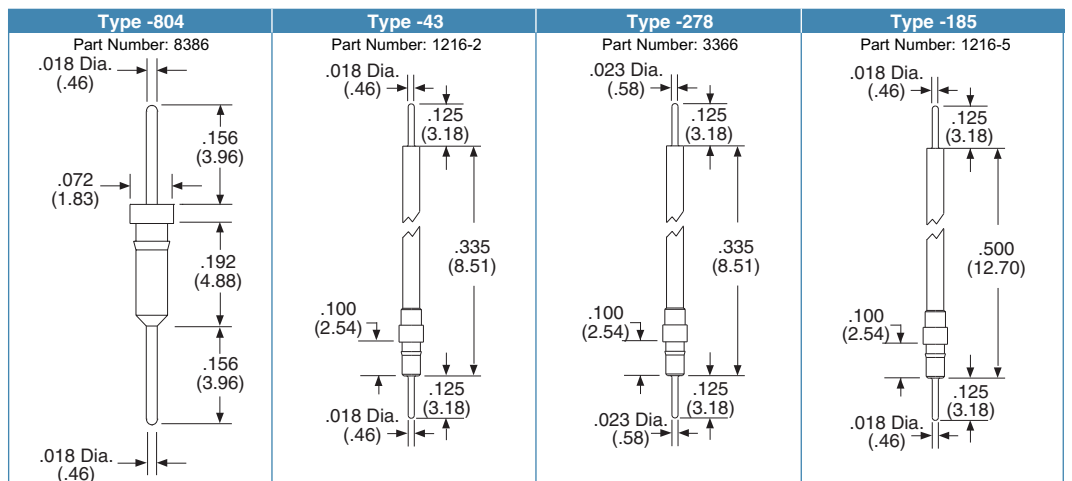
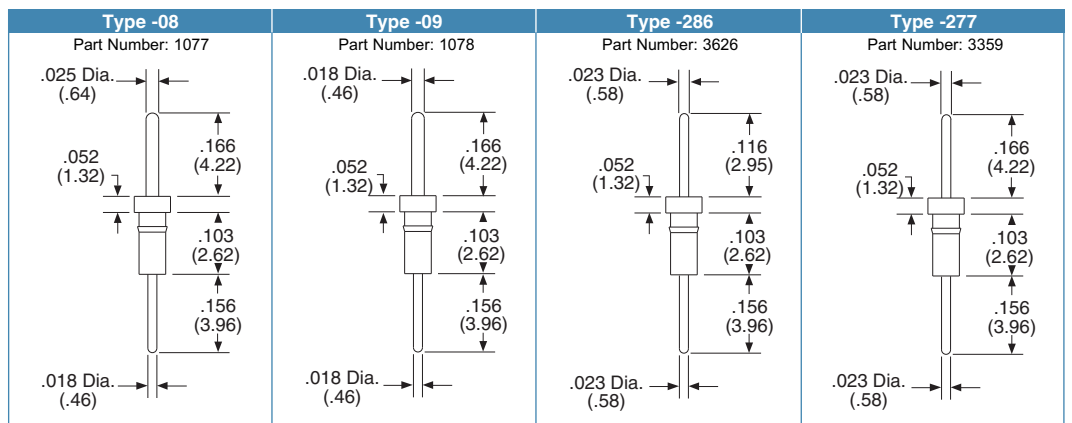
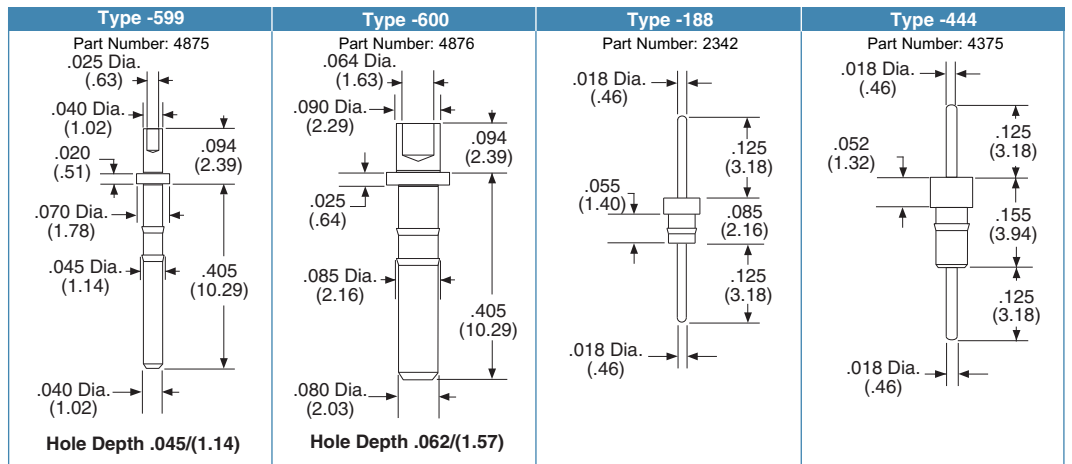
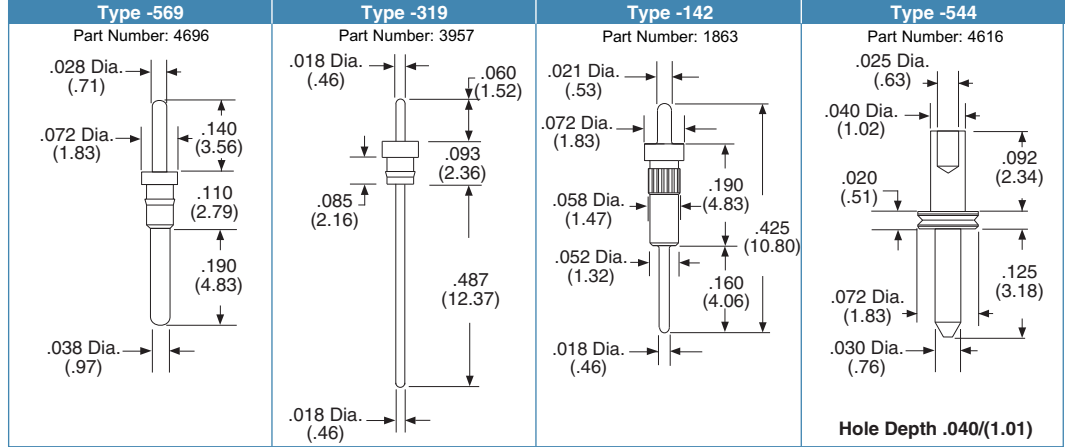
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Adapter (Male) Terminals



Specifications:

Material:

Terminal: Brass - Copper Alloy (C36000) ASTM-B-16

Terminal Plating:

- G - Gold over Nickel
- M - Matte Tin over Nickel
- T - Tin/Lead over Nickel

Gold per ASTM-B-488

Matte Tin per ASTM545-97

Tin/Lead per MIL-P-81728

Nickel per QQ-N-290

Note: For use in Peel-A-Way® Removable Terminal Carrier body types, select a terminal with a "V" groove.



Terminals not drawn to scale.

EXPRESS Delivery

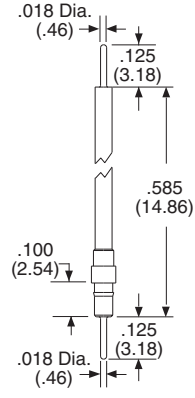
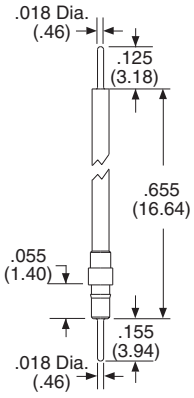
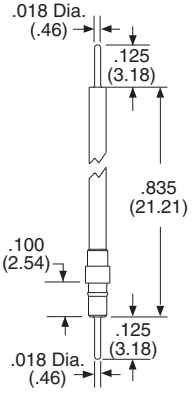
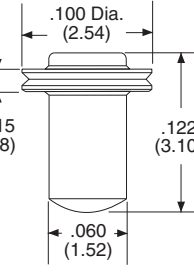
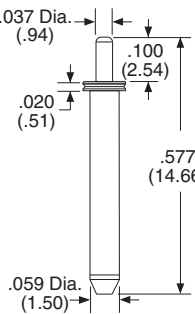
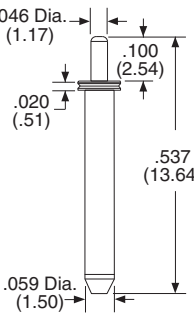
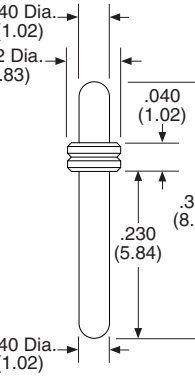
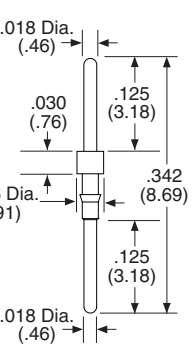
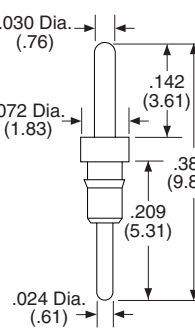
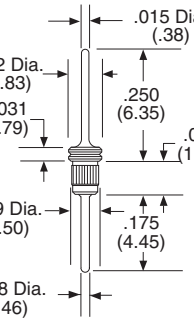
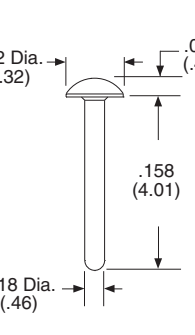
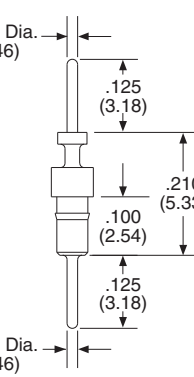


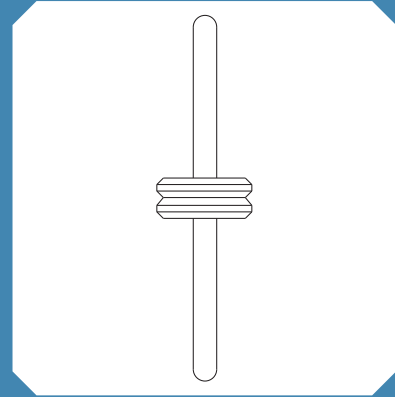
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Tel.: 039/158 126-0
www.infracron.de · info@infracron.de

Adapter (Male) Terminals

<p>Type -42 Part Number: 1216-3</p> 	<p>Type -360 Part Number: 1216-6</p> 	<p>Type -71 Part Number: 1216-4</p> 	<p>Type -506 Part Number: 4522</p> 
<p>Type -539 Part Number: 4621</p> 	<p>Type -540 Part Number: 4622</p> 	<p>Type -771 Part Number: 6041</p> 	<p>Type -721 Part Number: 5843-1</p> 
<p>Type -727 Part Number: 5926</p> 	<p>Type -626 Part Number: 5030</p> 	<p>Type -420 Part Number: 4298</p> 	<p>Type -68 Part Number: 1216-1</p> 



Specifications:

Material:

Terminal: Brass - Copper Alloy (C36000) ASTM-B-16

Terminal Plating:

G - Gold over Nickel
M - Matte Tin over Nickel
T - Tin/Lead over Nickel

Gold per ASTM-B-488
Matte Tin per ASTM545-97
Tin/Lead per MIL-P-81728
Nickel per QQ-N-290

Note: For use in Peel-A-Way® Removable Terminal Carrier body types, select a terminal with a "V" groove.

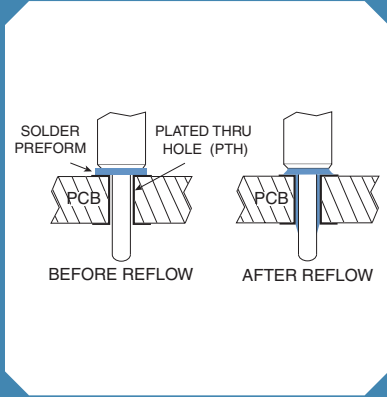


Terminals not drawn to scale.

EXPRESS Delivery

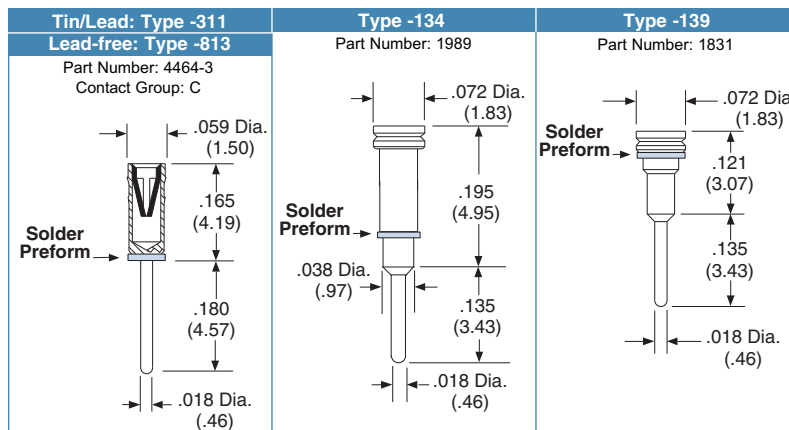
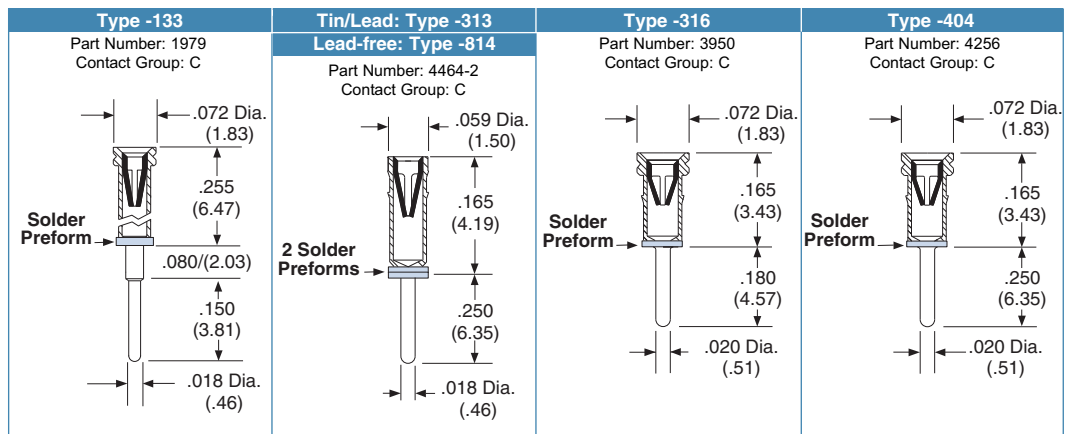
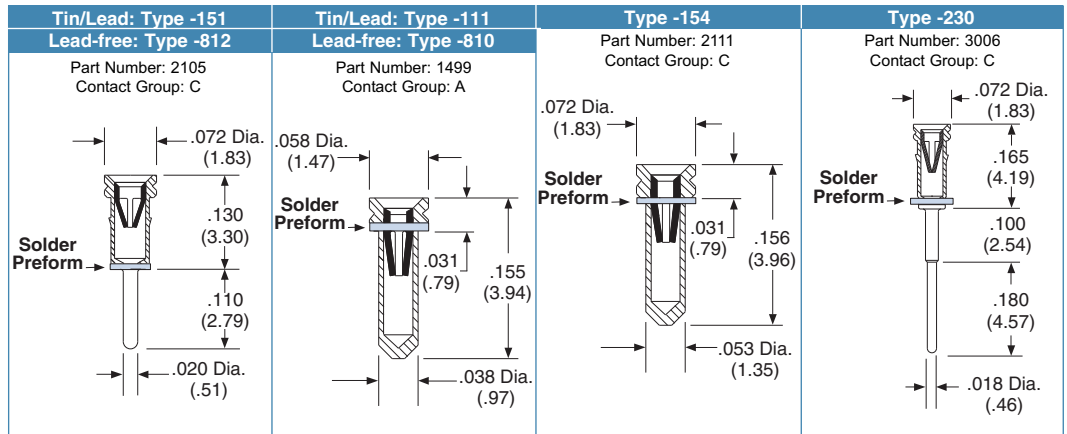
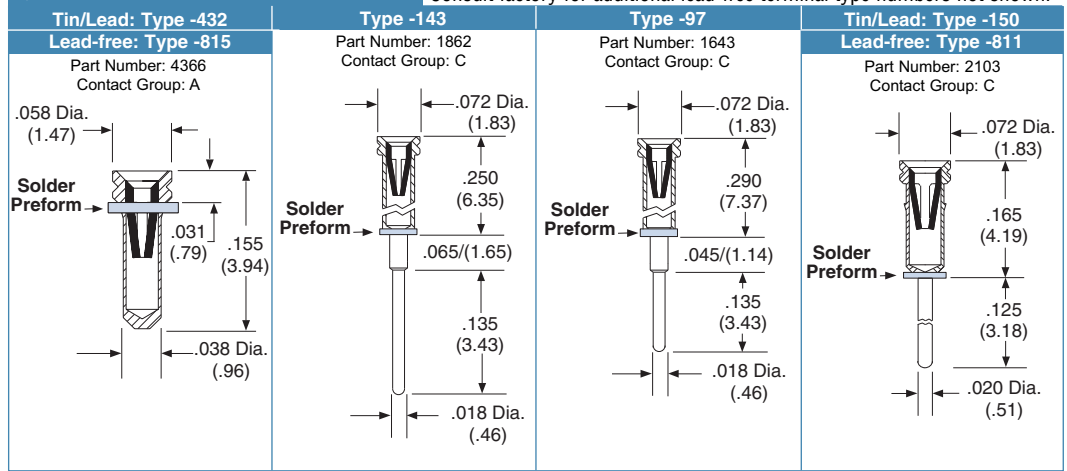


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Solder Preform Terminals

Consult factory for additional lead-free terminal type numbers not shown.



If not indicated, terminals are shown with our standard Tin/Lead solder preform. For additional Lead-free preform Terminal Type numbers, consult factory.

Specifications:

Material:

Terminal: Brass - Copper Alloy (C36000) ASTM-B-16

Solder Preform:

Standard: 63Sn/37Pb
 Lead-free: 95.5Sn/4.0Ag/0.5Cu

Contact Plating:

G - Gold over Nickel
 T - Tin/Lead over Nickel

Terminal Plating:

G - Gold over Nickel
 M - Matte Tin over Nickel
 T - Tin/Lead over Nickel

Gold per ASTM-B-488
 Matte Tin per ASTM545-97
 Tin/Lead per MIL-P-81728
 Nickel per QQ-N-290

Note: For use in Peel-A-Way® Removable Terminal Carrier body types, select a terminal with a "V" groove.



Terminals not drawn to scale.

EXPRESS Delivery



Terminals shown with the new EXPRESS symbol are available in most insulator body types with fast lead time. Some quantity and plating restrictions apply. Search our Distributor inventory online at www.advanced.com, or check with customer service for availability.



Infracron GmbH
 Tel.: 089/158 126-0
www.infracron.de info@infracron.de

Contact Information

Date: _____

Company Name: _____

Address: _____

City: _____ State: _____ ZIP: _____ Country: _____

Specifier: _____ Title: _____

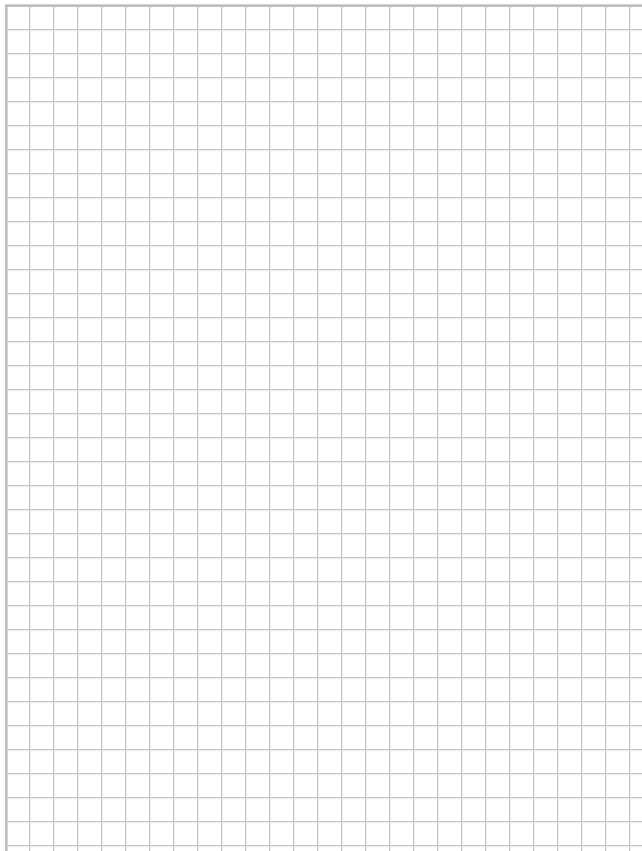
Phone: _____ Fax: _____

Email: _____

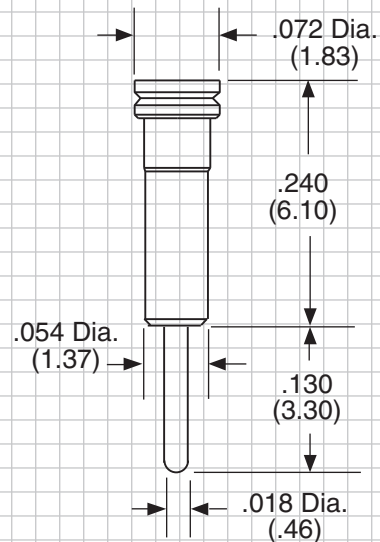


Terminal Information

1. **Similar Advanced Part #:** _____
2. **Terminal Material:**
 Brass
3. **Terminal Plating:**
 Tin/Lead over Nickel
 Gold over Nickel
 Matte Tin over Nickel
4. **Contact Material:**
 Beryllium Copper
5. **Contact Plating:**
 Tin/Lead over Nickel
 Gold over Nickel
6. **Size of Mating Pin or Component Lead:** _____
7. **Length of Mating Pin/Lead:** _____
8. **Use Advanced Contact Part:** _____
 (See pages 82-83)
9. **Required Insertion/Extraction Force:**
 Low
 Medium
 High
10. **Outline Sketch:**
 (Sketch terminal with all critical dimensions. See sample below.)

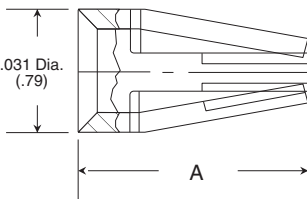
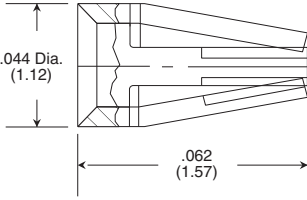
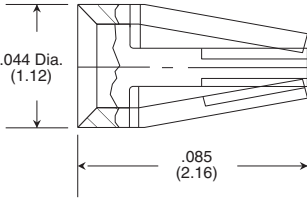
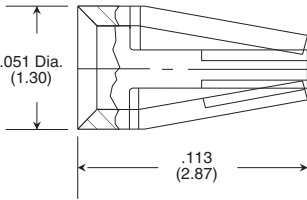
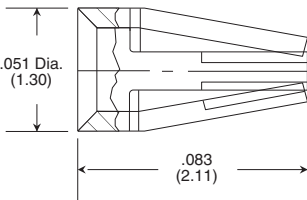


Sample Sketch



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<p>Group A</p>	<p>Lead Size Range .016-.022 Dia. (.41-.56) ● .010-.018 Rect. (.25-.46) ■</p>	<p>Contact Acceptance Range .016" - .022" Dia. or .010" x .018" Rectangular Lead (.41mm - .56mm) (.25mm - .46mm)</p>  <table border="1" data-bbox="774 220 1492 378"> <thead> <tr> <th>Part Number</th> <th>A</th> <th># of Fingers</th> <th>Materials</th> <th>Average Insertion Force</th> <th>Average Withdrawal Force</th> <th>Current Rating</th> </tr> </thead> <tbody> <tr> <td>1427</td> <td>.075/(1.91)</td> <td>3</td> <td>BeCu</td> <td>75g</td> <td>40g</td> <td>3 amp</td> </tr> <tr> <td>1907</td> <td>.060/(1.52)</td> <td>6</td> <td>BeCu</td> <td>175g</td> <td>50g</td> <td>3 amp</td> </tr> <tr> <td>1427-1</td> <td>.075/(1.91)</td> <td>3</td> <td>BeCu</td> <td>45g</td> <td>20g</td> <td>3 amp</td> </tr> </tbody> </table> <p>Forces determined with .018/(.46) diameter test pin. All tests are performed with polished steel bullet nose pins.</p>	Part Number	A	# of Fingers	Materials	Average Insertion Force	Average Withdrawal Force	Current Rating	1427	.075/(1.91)	3	BeCu	75g	40g	3 amp	1907	.060/(1.52)	6	BeCu	175g	50g	3 amp	1427-1	.075/(1.91)	3	BeCu	45g	20g	3 amp		
Part Number	A	# of Fingers	Materials	Average Insertion Force	Average Withdrawal Force	Current Rating																										
1427	.075/(1.91)	3	BeCu	75g	40g	3 amp																										
1907	.060/(1.52)	6	BeCu	175g	50g	3 amp																										
1427-1	.075/(1.91)	3	BeCu	45g	20g	3 amp																										
<p>Group B</p>	<p>Lead Size Range .016-.022 Dia. (.41-.56) ● .010-.018 Rect. (.25-.46) ■</p>	<p>Contact Acceptance Range .016" - .022" Dia. or .010" x .018" Rectangular Lead (.41mm - .56mm) (.25mm - .46mm)</p>  <table border="1" data-bbox="917 567 1492 714"> <thead> <tr> <th>Part Number</th> <th># of Fingers</th> <th>Materials</th> <th>Average Insertion Force</th> <th>Average Withdrawal Force</th> <th>Current Rating</th> </tr> </thead> <tbody> <tr> <td>1418</td> <td>4</td> <td>BeCu</td> <td>350g</td> <td>150g</td> <td>3 amp</td> </tr> <tr> <td>1418-4</td> <td>4</td> <td>BeCu</td> <td>100g</td> <td>60g</td> <td>3 amp</td> </tr> <tr> <td>2832</td> <td>6</td> <td>BeCu</td> <td>195g</td> <td>140g</td> <td>3 amp</td> </tr> </tbody> </table> <p>Forces determined with .018/(.46) diameter test pin. All tests are performed with polished steel bullet nose pins.</p>	Part Number	# of Fingers	Materials	Average Insertion Force	Average Withdrawal Force	Current Rating	1418	4	BeCu	350g	150g	3 amp	1418-4	4	BeCu	100g	60g	3 amp	2832	6	BeCu	195g	140g	3 amp						
Part Number	# of Fingers	Materials	Average Insertion Force	Average Withdrawal Force	Current Rating																											
1418	4	BeCu	350g	150g	3 amp																											
1418-4	4	BeCu	100g	60g	3 amp																											
2832	6	BeCu	195g	140g	3 amp																											
<p>Group C</p>	<p>Lead Size Range .016-.022 Dia. (.41-.56) ● .010-.018 Rect. (.25-.46) ■</p>	<p>Contact Acceptance Range .016" - .022" Dia. or .010" x .018" Rectangular Lead (.41mm - .56mm) (.25mm - .46mm)</p>  <table border="1" data-bbox="917 882 1492 1071"> <thead> <tr> <th>Part Number</th> <th># of Fingers</th> <th>Materials</th> <th>Average Insertion Force</th> <th>Average Withdrawal Force</th> <th>Current Rating</th> </tr> </thead> <tbody> <tr> <td>1002</td> <td>4</td> <td>BeCu</td> <td>250g</td> <td>75g</td> <td>3 amp</td> </tr> <tr> <td>1002-2</td> <td>4</td> <td>BeCu</td> <td>55g</td> <td>25g</td> <td>3 amp</td> </tr> <tr> <td>1465</td> <td>6</td> <td>BeCu</td> <td>75g</td> <td>45g</td> <td>3 amp</td> </tr> <tr> <td>1465-1</td> <td>6</td> <td>BeCu</td> <td>35g</td> <td>20g</td> <td>3 amp</td> </tr> </tbody> </table> <p>Forces determined with .018/(.46) diameter test pin. All tests are performed with polished steel bullet nose pins.</p>	Part Number	# of Fingers	Materials	Average Insertion Force	Average Withdrawal Force	Current Rating	1002	4	BeCu	250g	75g	3 amp	1002-2	4	BeCu	55g	25g	3 amp	1465	6	BeCu	75g	45g	3 amp	1465-1	6	BeCu	35g	20g	3 amp
Part Number	# of Fingers	Materials	Average Insertion Force	Average Withdrawal Force	Current Rating																											
1002	4	BeCu	250g	75g	3 amp																											
1002-2	4	BeCu	55g	25g	3 amp																											
1465	6	BeCu	75g	45g	3 amp																											
1465-1	6	BeCu	35g	20g	3 amp																											
<p>Group D</p>	<p>Lead Size Range .022-.032 Dia. (.56-.81) ●</p>	<p>Contact Acceptance Range .022" - .032" Dia. (.56mm - .81mm)</p>  <table border="1" data-bbox="917 1270 1492 1354"> <thead> <tr> <th>Part Number</th> <th># of Fingers</th> <th>Materials</th> <th>Average Insertion Force</th> <th>Average Withdrawal Force</th> <th>Current Rating</th> </tr> </thead> <tbody> <tr> <td>1768</td> <td>4</td> <td>BeCu</td> <td>300g</td> <td>125g</td> <td>4.5 amp</td> </tr> </tbody> </table> <p>Forces determined with .025/(.64) diameter test pin. All tests are performed with polished steel bullet nose pins.</p>	Part Number	# of Fingers	Materials	Average Insertion Force	Average Withdrawal Force	Current Rating	1768	4	BeCu	300g	125g	4.5 amp																		
Part Number	# of Fingers	Materials	Average Insertion Force	Average Withdrawal Force	Current Rating																											
1768	4	BeCu	300g	125g	4.5 amp																											
<p>Group D1</p>	<p>Lead Size Range .025-.037 Dia. (.64-.94) ● .025 Sq. (.63) ■</p>	<p>Contact Acceptance Range .025" - .037" Dia. or .025" Square Lead (.64mm - .94mm) (.64mm)</p>  <table border="1" data-bbox="917 1585 1492 1711"> <thead> <tr> <th>Part Number</th> <th># of Fingers</th> <th>Materials</th> <th>Average Insertion Force</th> <th>Average Withdrawal Force</th> <th>Current Rating</th> </tr> </thead> <tbody> <tr> <td>3648</td> <td>6</td> <td>BeCu</td> <td>125g</td> <td>40g</td> <td>4.5 amp</td> </tr> <tr> <td>3003</td> <td>6</td> <td>BeCu</td> <td>350g</td> <td>110g</td> <td>4.5 amp</td> </tr> </tbody> </table> <p>Forces determined with .025/(.64) diameter test pin. All tests are performed with polished steel bullet nose pins.</p>	Part Number	# of Fingers	Materials	Average Insertion Force	Average Withdrawal Force	Current Rating	3648	6	BeCu	125g	40g	4.5 amp	3003	6	BeCu	350g	110g	4.5 amp												
Part Number	# of Fingers	Materials	Average Insertion Force	Average Withdrawal Force	Current Rating																											
3648	6	BeCu	125g	40g	4.5 amp																											
3003	6	BeCu	350g	110g	4.5 amp																											

<p>Group E</p>	<p>Lead Size Range .032-.047 Dia. (.81-1.19)</p>	<p>Contact Acceptance Range .032" - .047" Dia. (.81mm - 1.19mm)</p>	<table border="1"> <thead> <tr> <th>Part Number</th> <th># of Fingers</th> <th>Materials</th> <th>Average Insertion Force</th> <th>Average Withdrawal Force</th> <th>Current Rating</th> </tr> </thead> <tbody> <tr> <td>2147</td> <td>4</td> <td>BeCu</td> <td>575g</td> <td>225g</td> <td>8 amp</td> </tr> </tbody> </table> <p>Forces determined with .040/(1.02) diameter test pin. All tests are performed with polished steel bullet nose pins.</p>	Part Number	# of Fingers	Materials	Average Insertion Force	Average Withdrawal Force	Current Rating	2147	4	BeCu	575g	225g	8 amp
Part Number	# of Fingers	Materials	Average Insertion Force	Average Withdrawal Force	Current Rating										
2147	4	BeCu	575g	225g	8 amp										
<p>Group E1</p>	<p>Lead Size Range .035-.045 Dia. (.89-1.14)</p>	<p>Contact Acceptance Range .035" - .045" Dia. (.89mm - 1.14mm)</p>	<table border="1"> <thead> <tr> <th>Part Number</th> <th># of Fingers</th> <th>Materials</th> <th>Average Insertion Force</th> <th>Average Withdrawal Force</th> <th>Current Rating</th> </tr> </thead> <tbody> <tr> <td>3970</td> <td>4</td> <td>BeCu</td> <td>300g</td> <td>185g</td> <td>8 amp</td> </tr> </tbody> </table> <p>Forces determined with .040/(1.02) diameter test pin. All tests are performed with polished steel bullet nose pins.</p>	Part Number	# of Fingers	Materials	Average Insertion Force	Average Withdrawal Force	Current Rating	3970	4	BeCu	300g	185g	8 amp
Part Number	# of Fingers	Materials	Average Insertion Force	Average Withdrawal Force	Current Rating										
3970	4	BeCu	300g	185g	8 amp										
<p>Group E2</p>	<p>Lead Size Range .040-.060 Dia. (1.02-1.52)</p>	<p>Contact Acceptance Range .040" - .060" Dia. (1.02mm - 1.52mm)</p>	<table border="1"> <thead> <tr> <th>Part Number</th> <th># of Fingers</th> <th>Materials</th> <th>Average Insertion Force</th> <th>Average Withdrawal Force</th> <th>Current Rating</th> </tr> </thead> <tbody> <tr> <td>2818</td> <td>4</td> <td>BeCu</td> <td>260g</td> <td>120g</td> <td>11.2 amp</td> </tr> </tbody> </table> <p>Forces determined with .050/(1.27) diameter test pin. All tests are performed with polished steel bullet nose pins.</p>	Part Number	# of Fingers	Materials	Average Insertion Force	Average Withdrawal Force	Current Rating	2818	4	BeCu	260g	120g	11.2 amp
Part Number	# of Fingers	Materials	Average Insertion Force	Average Withdrawal Force	Current Rating										
2818	4	BeCu	260g	120g	11.2 amp										
<p>Group F</p>	<p>Lead Size Range .065-.082 Dia. (1.65-2.08)</p>	<p>Contact Acceptance Range .065" - .082" Dia. (1.65mm - 2.08mm)</p>	<table border="1"> <thead> <tr> <th>Part Number</th> <th># of Fingers</th> <th>Materials</th> <th>Average Insertion Force</th> <th>Average Withdrawal Force</th> <th>Current Rating</th> </tr> </thead> <tbody> <tr> <td>1767</td> <td>4</td> <td>BeCu</td> <td>475g</td> <td>460g</td> <td>15 amp</td> </tr> </tbody> </table> <p>Forces determined with .075/(1.91) diameter test pin. All tests are performed with polished steel bullet nose pins.</p>	Part Number	# of Fingers	Materials	Average Insertion Force	Average Withdrawal Force	Current Rating	1767	4	BeCu	475g	460g	15 amp
Part Number	# of Fingers	Materials	Average Insertion Force	Average Withdrawal Force	Current Rating										
1767	4	BeCu	475g	460g	15 amp										
<p>Group G</p>	<p>Lead Size Range .084-.102 Dia. (2.13-2.59)</p>	<p>Contact Acceptance Range .084" - .102" Dia. (2.13mm - 2.59mm)</p>	<table border="1"> <thead> <tr> <th>Part Number</th> <th># of Fingers</th> <th>Materials</th> <th>Average Insertion Force</th> <th>Average Withdrawal Force</th> <th>Current Rating</th> </tr> </thead> <tbody> <tr> <td>4673</td> <td>6</td> <td>BeCu</td> <td>500g</td> <td>320g</td> <td>18 amp</td> </tr> </tbody> </table> <p>Forces determined with .092/(2.34) diameter test pin. All tests are performed with polished steel bullet nose pins.</p>	Part Number	# of Fingers	Materials	Average Insertion Force	Average Withdrawal Force	Current Rating	4673	6	BeCu	500g	320g	18 amp
Part Number	# of Fingers	Materials	Average Insertion Force	Average Withdrawal Force	Current Rating										
4673	6	BeCu	500g	320g	18 amp										

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8794	BGA Extraction Tool	.4-5
BA	B2B® SMT Connectors (Male 1.27mm pitch)	.54-55
BB	B2B® SMT Connectors (Female 1.27mm pitch)	.54-55
DHA	Flexible Thru-Hole Male Connector (1.00mm pitch)	.56-57
DHAM	Molded SMT Male Connector (1.00mm pitch)	.56-57
DHS	Molded SMT Female Connector (1.00mm pitch)	.56-57
DKA	Board to Board Connector (Male Dual Row Peel-A-Way®)	.40-43
DKS	Board to Board Connector (Female Dual Row Peel-A-Way®)	.40-43
FAPC	Image Sensor Socket (Open Body 2.54mm pitch)	.26-27
FAPF	Image Sensor Socket (Full Body 2.54mm pitch)	.26-27
FBPC	Image Sensor Socket (Open Body 1.78mm pitch)	.26-27
FBPF	Image Sensor Socket (Full Body 1.78mm pitch)	.26-27
FCPC	Image Sensor Socket (Open Body 1.27mm pitch)	.26-27
FCPF	Image Sensor Socket (Full Body 1.27mm pitch)	.26-27
FGA	Standard BGA Adapter (1.27mm pitch)	.6-7
FGAG	Guide Box BGA Adapter (1.27mm pitch)	.10-11
FGAX	Extraction Slot BGA Adapter (1.27mm pitch)	.6-7
FGSG	Guide Box BGA Socket (1.27mm pitch)	.10-11
FHA	Standard BGA Adapter (1.00mm pitch)	.6-7
FHAG	Guide Box BGA Adapter (1.00mm pitch)	.10-11
FHAX	Extraction Slot BGA Adapter (1.00mm pitch)	.6-7
FHSG	Guide Box BGA Socket (1.00mm pitch)	.10-11
FIS	PGA Socket (FR-4 Insulator)	.20-21
FJA	Standard BGA Adapter (0.80mm pitch)	.6-7
FJAG	Guide Box BGA Adapter (0.80mm pitch)	.10-11
FJS	Standard BGA Socket (0.80mm pitch)	.8-9
FJSG	Guide Box BGA Socket (0.80mm pitch)	.10-11
FLA	Fine Pitch BGA Adapter (0.65mm pitch)	.4-5
FLS	Fine Pitch BGA Socket (0.65mm pitch)	.4-5
FMA	Fine Pitch BGA Adapter (0.50mm pitch)	.4-5
FMS	Fine Pitch BGA Socket (0.50mm pitch)	.4-5
FRG	Flip-Top™ BGA Socket (1.27mm pitch)	.12-13
FRH	Flip-Top™ BGA Socket (1.00mm pitch)	.12-13



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HKS	Board to Board Connector (Female Triple Row Peel-A-Way®)	.50-51
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KBA	Board to Board Connector (Male Single Row Peel-A-Way®)	.46-49
KBS	Board to Board Connector (Female Single Row Peel-A-Way®)	.46-49
KDA	Board to Board Connector (Male Dual Row Peel-A-Way®)	.46-49
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KMC	Board to Board Connector (Male Triple Row Peel-A-Way®)	.44-45
KMD	Board to Board Connector (Female Dual Row Peel-A-Way®)	.44-45
KMS	Board to Board Connector (Female Single Row Peel-A-Way®)	.44-45
KMT	Board to Board Connector (Female Triple Row Peel-A-Way®)	.44-45
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MHAG	Guide Box BGA Adapter (1.00mm pitch)	.10-11
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Material Specifications

Note: All materials listed, with the exception of Tin/Lead plating and PPS insulators are RoHS Compliant and compatible with high temperature processing.

Insulators:

- LCP** Liquid Crystal Polymer, 30% Glass Reinforced.
U.L. Rated 94V-0. Color: Black. Thermal Index to 260°C.
- FR-4** Fiberglass Epoxy Board. U.L. Rated 94V-0.
Color: Black. Thermal Index to 140°C.
- Polyimide Film** (Peel-A-Way®). U.L. Rated 94V-0.
Thermal Index to 400°C.
- PPS** Polyphenylene Sulfide Glass Reinforced. U.L. Rated 94V-0. Color Natural. Thermal Index to 260° C. (Note: Not compatible with high temperature processing.)

Terminals:

Brass - Copper Alloy (C36000) per ASTM-B-16.

Contacts:

Beryllium Copper (BeCu) (C17200) per ASTM-B-194.

Standard Contact Plating Specifications:

- G:** 30 micro inches Gold per MIL-G-45204 over 50 micro inches of Nickel per QQ-N-290.
- T:** 150 micro inches of 90/10 Tin/Lead per MIL-P-81728 over 50 micro inches of Nickel per QQ-N-290.

Standard Terminal Shell Plating Specifications:

- G:** 10 micro inches Gold per ASTM-B-488 over 50 micro inches Nickel per QQ-N-290.
- GH:** 30 micro inches Gold per ASTM-B-488 over 50 micro inches Nickel per QQ-N-290.
- T:** 200 micro inches of 90/10 Tin/Lead per MIL-P-81728 over 50 micro inches Nickel per QQ-N-290.
- M:** 100 micro inches of Matte Tin per ASTM545-97 over 50 micro inches Nickel per QQ-N-290.

Optional Plating Specifications:

(consult factory for availability)

Contact: 10 micro inches Gold per ASTM-B-488 over 50 micro inches Nickel per QQ-N-290.

Contact: Gold Flash over 50 micro inches Nickel per QQ-N-290.

Terminal Shell: Gold Flash over 50 micro inches Nickel per QQ-N-290.

Terminal Shell: 200 micro inches of 90/10 Tin/Lead per MIL-P-81728 over 100 micro inches Copper.

Solder Spheres and Solder Preforms:

- Standard:** Eutectic Tin/Lead, 63Sn/37Pb. 183°C (361°F)
- Lead-free:** Tin/Silver/Copper, 95.5Sn/4.0Ag/0.5Cu or 96.5Sn/3.0Ag/0.5Cu. 218°C (424°F)

Tape Seal:

Silicone backed Polyimide film. Temperature range: -74°C to 260°C (-100°F to 500°F), Intermittent to 371°C (700°F).

Tolerances: Unless otherwise noted all dimensions are +/- .005 (0.13mm)
Custom designs available upon request.

ISO 9001:2008 Certified
(Certificate No. 7566)



Federal I.D. #: 05-0394638
Federal Supply #: 61638

Bellcore Mfg. Code: ADVI
SIC Code: 3678

A Note About Our RoHS Compliant Part Numbers

When insulator or plating materials changed, new part numbers have been established to assist our customers with inventory and documentation control. For existing products that already met RoHS requirements, such as Peel-A-Way® Sockets with Gold plating, part numbers have not changed.

All RoHS Compliant part numbers will be clearly indicated on data sheets and package labels. Look for our "RoHS Compliant Pb Free" symbol and easy-to-use How to Order tables throughout this catalog to assist with selecting RoHS Compliant interconnect products. For complete product information, including RoHS Compliance Test Reports, visit our web site at www.advanced.com or contact one of our experienced Manufacturer's Representatives or Distributors in your area.



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This catalog was produced and printed in the U.S.A.

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