

## 1900 - EMI enclosures

1900 series Mu-copper housings/enclosures consists of a 2-part body (cover and housing). The Mu-copper housings/enclosures provide excellent RFI/EMI shielding and protection. The EMI shielded housing is designed to be installed in, for example, an existing plastic housing in order to protect the components against electromagnetic interference. The EMI shielded housing can also be used to protect an entire printed circuit board in an enclosure against interference from other components in the enclosure.

Having a two-part body allows connectors, displays and switches fitted on the PCB to protrude through the cover and the housing section this is not possible on single-part case bodies. Cutouts through the cover and housing section or recesses create space enough for connectors, displays, and switches on the PCB .

PCBs can be mounted on plastic studs so that they are insulated from the EMI shielded housing. The studs can be supplied threaded or with extremely strong adhesive in any shape or size.

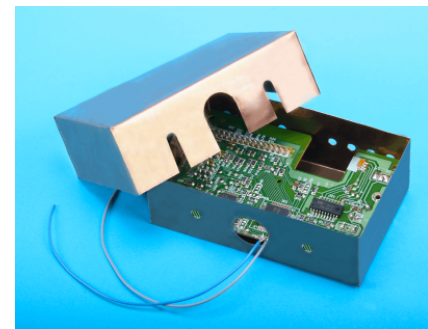
For heavy duty applications the cover can be soldered to the housing or fixed with studs and screws.

Available in standard dimensions (see table of standard dimensions below) and in any desired shape and size as well, according to your drawing. You can also specify where the insulating studs should be placed.

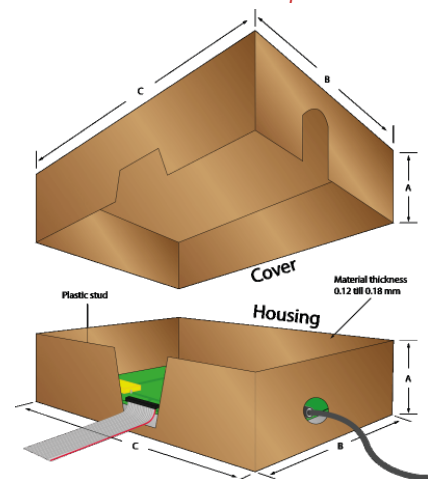
Available in mu-copper or tinned mu-copper version for easy soldering.

### Benefits

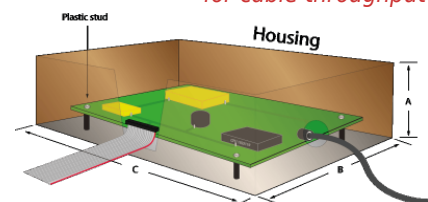
- Lightweight solution
- Available in every dimension
- Shielding near to the source
- Mounting afterwards is possible
- No gaskets required
- Extra shielding layer in combination with other barriers



*Exemplary picture of a housing for EMI shielding made according to customer specifications*



*EMI housing for PCB with recess area for cable throughput*



*The PCB can be placed on plastic studs to avoid contact with the EMI shielded housing*

### Typical applications

- Hand held test and measurement devices
- Radio control equipment
- Wall mounted monitoring systems
- Security devices
- Building control equipment

### Options (on request)

- With insulation layer in the housing part, no studs needed for the PCB
- Vents in the cover part for heat dissipation or cooling
- For additional reduction of radiation, it is possible to add EM absorbers to the EMI housing

### Specification

Color	Copper or silver (when tinned version)
Material	Mu-copper
Thickness	0.12 or 0.18 mm

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### Standard EMI shielding housings/enclosures

**NOTE:** Custom sizes and shapes can be produced on request and according to your drawing. Send your drawing to request a quote for a custom shape to [info@hollandshielding.com](mailto:info@hollandshielding.com).

#### Square EMI shielding housings (5 to 50 mm height)

Length (mm)	Width (mm)	Height (mm)							
		5	10	15	20	25	30	40	50
25	25	1900-25-25-5	1900-25-25-10	1900-25-25-15	1900-25-25-20	1900-25-25-25	1900-25-25-30	1900-25-25-40	1900-25-25-50
30	30	1900-30-30-5	1900-30-30-10	1900-30-30-15	1900-30-30-20	1900-30-30-25	1900-30-30-30	1900-30-30-40	1900-30-30-50
35	35	1900-35-35-5	1900-35-35-10	1900-35-35-15	1900-30-30-20	1900-30-30-25	1900-30-30-30	1900-30-30-40	1900-35-35-50
40	40	1900-40-40-5	1900-40-40-10	1900-40-40-15	1900-40-40-20	1900-40-40-25	1900-40-40-30	1900-40-40-40	1900-40-40-50
45	45	1900-45-45-5	1900-45-45-10	1900-45-45-15	1900-45-45-20	1900-45-45-25	1900-45-45-30	1900-45-45-40	1900-45-45-50
50	50	1900-50-50-5	1900-50-50-10	1900-50-50-15	1900-50-50-20	1900-50-50-25	1900-45-45-30	1900-45-45-40	1900-50-50-50
55	55	1900-55-55-5	1900-55-55-10	1900-55-55-15	1900-55-55-20	1900-55-55-25	1900-55-55-30	1900-55-55-40	1900-55-55-50
60	60	1900-60-60-5	1900-60-60-10	1900-60-60-15	1900-60-60-20	1900-60-60-25	1900-60-60-30	1900-60-60-40	1900-60-60-50
65	65	1900-65-65-5	1900-65-65-10	1900-65-65-15	1900-65-65-20	1900-65-65-25	1900-65-65-30	1900-65-65-40	1900-65-65-50
70	70	1900-70-70-5	1900-70-70-10	1900-70-70-15	1900-70-70-20	1900-70-70-25	1900-70-70-30	1900-65-65-40	1900-70-70-50
75	75	1900-75-75-5	1900-75-75-10	1900-75-75-15	1900-75-75-20	1900-75-75-25	1900-75-75-30	1900-65-65-40	1900-75-75-50

#### Rectangular EMI shielding housings (5 to 50 mm height)

Length (mm)	Width (mm)	Height (mm)						
		10	15	20	25	30	40	50
10	15	1900-10-15-10	1900-10-15-15	1900-10-15-20	1900-10-15-25	1900-10-15-30	1900-10-15-40	1900-10-15-50
10	20	1900-10-20-10	1900-10-20-15	1900-10-20-20	1900-10-20-25	1900-10-20-30	1900-10-20-40	1900-10-20-50
10	25	1900-10-25-10	1900-10-25-15	1900-10-25-20	1900-10-25-25	1900-10-25-30	1900-10-25-40	1900-10-25-50
10	30	1900-10-30-10	1900-10-30-15	1900-10-30-20	1900-10-30-25	1900-10-30-30	1900-10-30-40	1900-10-30-50
10	35	1900-10-35-10	1900-10-35-15	1900-10-35-20	1900-10-35-25	1900-10-35-30	1900-10-35-40	1900-10-35-50
10	40	1900-10-40-10	1900-10-40-15	1900-10-40-20	1900-10-40-25	1900-10-40-30	1900-10-40-40	1900-10-40-50
10	45	1900-10-45-10	1900-10-45-15	1900-10-40-20	1900-10-40-25	1900-10-40-30	1900-10-40-40	1900-10-40-50
10	50	1900-10-50-10	1900-10-50-15	1900-10-40-20	1900-10-40-25	1900-10-40-30	1900-10-40-40	1900-10-40-50
15	20	1900-15-20-10	1900-15-20-15	1900-10-40-20	1900-10-40-25	1900-10-40-30	1900-10-40-40	1900-10-40-50
15	25	1900-15-25-10	1900-15-25-15	1900-15-25-20	1900-15-25-25	1900-15-25-30	1900-15-25-40	1900-15-25-50
15	30	1900-15-30-10	1900-15-30-15	1900-15-30-20	1900-15-30-25	1900-15-30-30	1900-15-30-40	1900-15-30-50
15	35	1900-15-35-10	1900-15-35-15	1900-15-35-20	1900-15-35-25	1900-15-35-30	1900-15-35-40	1900-15-35-50
15	40	1900-15-40-10	1900-15-40-15	1900-15-40-20	1900-15-40-25	1900-15-40-30	1900-15-40-40	1900-15-40-50
15	45	1900-15-45-10	1900-15-45-15	1900-15-45-20	1900-15-45-25	1900-15-45-30	1900-15-45-40	1900-15-45-50
15	50	1900-15-50-10	1900-15-50-15	1900-15-50-20	1900-15-50-25	1900-15-50-30	1900-15-50-40	1900-15-50-50
20	25	1900-20-25-10	1900-20-25-15	1900-20-25-20	1900-20-25-25	1900-20-25-30	1900-20-25-40	1900-20-25-50
20	30	1900-20-30-10	1900-20-30-15	1900-20-30-20	1900-20-30-25	1900-20-30-30	1900-20-30-40	1900-20-30-50
20	35	1900-20-35-10	1900-20-35-15	1900-20-35-20	1900-20-35-25	1900-20-35-30	1900-20-35-40	1900-20-35-50
20	40	1900-20-40-10	1900-20-40-15	1900-20-40-20	1900-20-40-25	1900-20-40-30	1900-20-40-40	1900-20-40-50
20	45	1900-20-45-10	1900-20-45-15	1900-20-45-20	1900-20-45-25	1900-20-45-30	1900-20-45-40	1900-20-45-50
20	50	1900-20-50-10	1900-20-50-15	1900-20-50-20	1900-20-50-25	1900-20-50-30	1900-20-50-40	1900-20-50-50
25	30	1900-25-30-10	1900-25-30-15	1900-25-30-20	1900-25-30-25	1900-25-30-30	1900-25-30-40	1900-25-30-50
25	35	1900-25-35-10	1900-25-35-15	1900-25-35-20	1900-25-35-25	1900-25-35-30	1900-25-35-40	1900-25-35-50
25	40	1900-25-40-10	1900-25-40-15	1900-25-40-20	1900-25-40-25	1900-25-40-30	1900-25-40-40	1900-25-40-50
25	45	1900-25-45-10	1900-25-45-15	1900-25-45-20	1900-25-45-25	1900-25-45-30	1900-25-45-40	1900-25-45-50
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30	35	1900-30-35-10	1900-30-35-15	1900-30-35-20	1900-30-35-25	1900-30-35-30	1900-30-35-40	1900-30-35-50
30	40	1900-30-40-10	1900-30-40-15	1900-30-40-20	1900-30-40-25	1900-30-40-30	1900-30-40-40	1900-30-40-50
30	45	1900-30-45-10	1900-30-45-15	1900-30-45-20	1900-30-45-25	1900-30-45-30	1900-30-45-40	1900-30-45-50
30	50	1900-30-50-10	1900-30-50-15	1900-30-50-20	1900-30-50-25	1900-30-50-30	1900-30-50-40	1900-30-50-50
35	40	1900-35-40-10	1900-35-40-15	1900-35-40-20	1900-35-40-25	1900-35-40-30	1900-35-40-40	1900-35-40-50
35	45	1900-35-45-10	1900-35-45-15	1900-35-45-20	1900-35-45-25	1900-35-45-30	1900-35-45-40	1900-35-45-50
35	50	1900-35-50-10	1900-35-50-15	1900-35-50-20	1900-35-50-25	1900-35-50-30	1900-35-50-40	1900-35-50-50
40	45	1900-40-45-10	1900-40-45-15	1900-40-45-20	1900-40-45-25	1900-40-45-30	1900-40-45-40	1900-40-45-50
40	50	1900-40-50-10	1900-40-50-15	1900-40-50-20	1900-40-50-25	1900-40-50-30	1900-40-50-40	1900-40-50-50
45	50	1900-45-50-10	1900-45-50-15	1900-45-50-20	1900-45-50-25	1900-45-50-30	1900-45-50-40	1900-45-50-50
50	75	1900-50-75-10	1900-50-75-15	1900-50-75-20	1900-50-75-25	1900-50-75-30	1900-50-75-40	1900-50-75-50
75	100	1900-75-100-10	1900-75-100-15	1900-75-100-20	1900-75-100-25	1900-75-100-30	1900-75-100-40	1900-75-100-50
100	125	1900-100-125-10	1900-100-125-15	1900-100-125-20	1900-100-125-25	1900-100-125-30	1900-100-125-40	1900-100-125-50
100	150	1900-100-150-10	1900-100-150-15	1900-100-150-20	1900-100-150-25	1900-100-150-30	1900-100-150-40	1900-100-150-50
100	160	1900-100-160-10	1900-100-160-15	1900-100-160-20	1900-100-160-25	1900-100-160-30	1900-100-160-40	1900-100-160-50

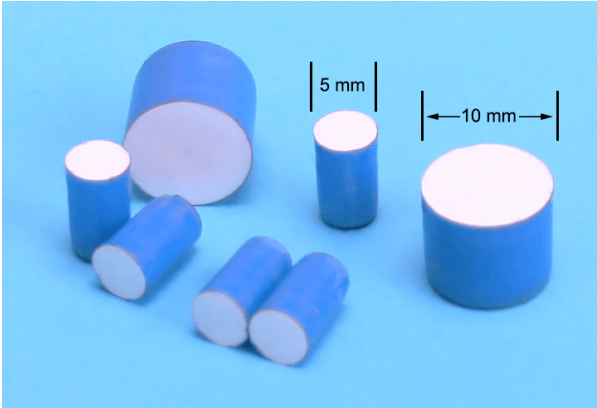
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## 1900 - EMI enclosures

### Plastic studs

To place the printed circuit board in the EMI shielding enclosure without making contact with the housing you can place it on plastic studs. We can deliver plastic studs in 3, 5 and 8 mm length. The diameter of the plastic studs may be 5 or 10 mm. Made to your specifications is also possible on request.

Plastic studs are provided with a very strong adhesive sticker on both sides. Place one side at the desired location in the housing and the other side on the PCB. The plastic studs can be delivered in black, white and blue.



*Plastic studs in blue*

Series	Length (mm)	Width (mm)	Height (mm)	Version	Material thickness
1900	50	75	10	Select an option: MC : Mu-copper TMC : Tinned mu-copper	Select an option: 0.12 : 0.12 mm thickness 0.18 : 0.18 mm thickness