

Deep drawn mu-metal shields

The PL series deep drawn mu-metal shields are perfect for shielding sensitive electronics equipment against static or low frequency magnetic fields. Ideal for shielding audio transformers.

These high-quality mu-metal shields are fabricated using HYMU80 alloy which offers extremely high initial permeability and maximum permeability. After the shields are formed by the deep drawn process, they are annealed at a temperature of 1180°C in hydrogen atmosphere and cooled at a controlled rate to achieve the best shielding characteristics.

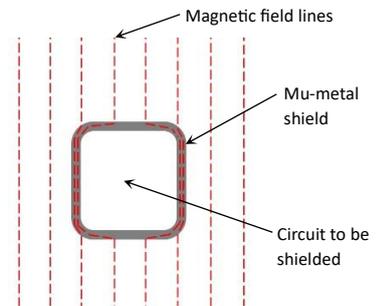
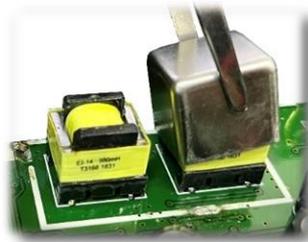


Typical Chemical Composition:

Element	C	P	S	Mn	Si	Ni	Cu	Mo	Fe
%	≤0.03	≤0.02	≤0.02	0.30-0.60	0.15-0.30	79.0-81.0	≤0.20	4.80-5.20	Balance

Properties:

- Finish: Bright clean corrosion resistant surface
- Hardness (HV): ≥ 150
- Permeability at 0.08A/m magnetic field strength: ≥ 62.5 mH/mm
- Permeability (max): ≥225 mH/m
- Coercivity at magnetic saturation (Hc): ≤ 1.2



The mu-metal shield provides a path for magnetic field lines around the shielded area

Dimensions:

Part Number ¹	Length (L) ^{2,3}	Width (W) ^{2,3}	Height (H) ^{2,3}	Wall Thickness (t) ³
PL-MUS-171515	17mm (0.67")	15mm (0.59")	15mm (0.59")	0.5mm (0.02")
PL-MUS-302525	30mm (1.18")	25mm (0.98")	25mm (0.98")	0.5mm (0.02")
PL-MUS-401815	40mm (1.57")	18mm (0.71")	15mm (0.59")	0.5mm (0.02")

- 1) These sizes are for our standard parts. If you have requirements for custom size or shape (e.g. circular shield), please send us an enquiry.
- 2) External dimension.
- 3) Tolerance +/- 0.25mm (0.010")

