

Characteristics:

The PFcan is composed of a pre-metallized plastic film that is then thermal pressed into a designated shape. Afterwards it is metallised and attached onto the PCB to provide light weight, electromagnetic shielding for protection of sensitive electronic devices. PFcan is an excellent option for replacing traditional metal cans, especially for designs that require multiple cavities. Along with significant unit price and manufacturing cost savings, PFcan assists designers to solve some of the most difficult issues, including but not limited to, weight, board space, component isolation and variation in height.

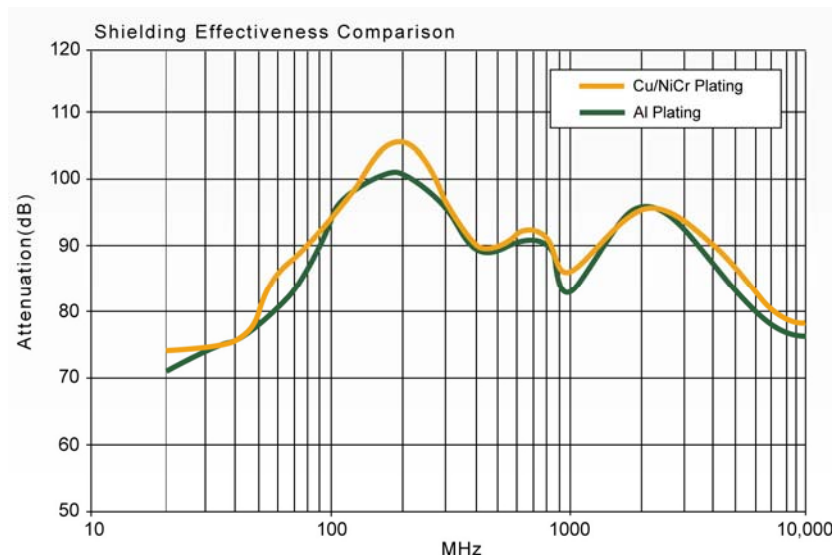
Key Features:

- **Significant size and weight reduction**
- **Superior shielding effectiveness due to our unique Cu/NiCr metallization process**
- **Small footprint provides over 50% savings of PCB space over traditional methods**
- **Simplified manufacturing process**
- **Single PFcan can provide multiple cavities for reduced inventory and tooling cost**
- **Shorter time to market**

Applications:

- **Mobile devices**
- **Test equipment**
- **Medical devices**

Shielding Effectiveness:



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Typical Properties:

Typical Items		Unit	Properties
Plastic	Material		PC PEEK
	Thickness, mils (mm)		12~24 (0.3~0.6)
	Flame Retardant		UL 94V-0
	Highest temperature resistance	°C	PC 130 PEEK 260
Metal	Materials		Cu/NiCr Al Cu/NiCr/Sn
	Nominal Thickness, microns	microns	2
	Typical Surface Resistivity	Ohm	0.02
Electrical conductive PSA.	Binder		Silicone
	Filler		Ag/Glass
	Nominal Thickness	mils (mm)	2 ~3 (0.05~0.08)
	Initial Surface Resistivity, SR	milliohms	3
	Initial Through Resistivity, TR	milliohms	4
	Initial Peel	oz/in (N/m)	35 (380)
	Heat Aging with Humidity, Surface Resistivity, SR	95% RH/185°F (85°C), milliohms	5
	Heat Aging with Humidity, Through Resistivity, TR	95% RH/185°F (85°C), milliohms	6
	Heat Aging with Humidity, Peel	95% RH/185°F (85°C), oz/in (N/m)	45 (490)
Operation temperature	°C	- 40 ~ + 200	
Performance	Typical Surface Resistivity	Ohm	0.02
	Shielding Effectiveness, dB	100 MHz	92
		500 MHz	91
		1 GHz	86
		10 GHz	78

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Installation Process:

PFcan → Press Jig (up side)

PCB → Press Fixture (down side)

Peel of Release liner on PFcan → Press down on PCB → Apply 5~10 psi for 10~15 seconds then Release Press → Remove PCB

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Part Number:**PFcan-XXXX-.YYYY**

XXXX – Customized Part Number

YYYY:

- 1st Y Thickness:

3 – 0.3mm

4 – 0.4mm

5 – 0.5mm

6 – 0.6mm

- 2nd Y Metallization Coating Side:

I – Inside Coating

O – Outside Coating

- 3rd Y Metal Selection:

S – Cu/NiCr

A – Al

W – Cu/NiCr/Sn

- 4th Y Attaching Methods:

A – Electrical conductive PSA

S – Screw

H – Electrical Conductive Hot Melt

W – Soldering

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