

# EMI RFI Protection in High-Frequency Electronic Devices with Customized Precision Metal Stamping Custom PCB RF Shields

## Basic Information

- Place of Origin:
- Brand Name:
- Certification:
- Model Number:
- Minimum Order Quantity: 1 pcs
- Price:
- Packaging Details:
- Delivery Time:
- Payment Terms: T/T, Western Union, MoneyGram

China

Xianheng

RF-XG-37

5-8 days

USD 0.01\$-0.5\$

Carton Wooden case

10000 SET per week

ISO 9001:2015 SGS RoHS

Supply Ability:



# Product Specification

Products:	SMD EMI PCB RF Shield Cover,stamping Contacts, Metal Parts
Process:	Metal Sheets Fabrication,Welding Cutting Punching Stamping
Application:	SMD EMI PCB RF Shield Cover, Mobile PCB Cover
• Tolerance:	+/-0.02mm
Equipment:	Precision Stamping Parts
Material:	Tin Plate Copper-Nickel-Zinc Alloy
• Function:	Shielding Cover
• Used:	PCB Board,mobile Phones Cover, Computers, GPS, Watches, Digital Products And Other Electronic Products, Prevent Electromagnetic Interference (EMI), On PCB Components And LCM Shield
<ul> <li>Surface Finishing:</li> </ul>	Normal,tin Plating ,nickel Plating
Package:	Platic Bag ,Blister Box ,Tap Reel Or As Your



### More Images



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# What We Can Provide

EMI RFI Protection in High-Frequency Electronic Devices with Customized Precision Metal Stamping Custom PCB RF Shields

### Description Of EMI RFI Protection in High-Frequency Electronic Devices with Customized Precision Metal Stamping Custom PCB RF Shields

High-frequency electronic devices, such as 5G communication modules, automotive radar systems, aerospace electronics, and medical imaging equipment, operate at frequencies where electromagnetic interference (EMI) and radio-frequency interference (RFI) can severely degrade performance. To ensure reliable operation, customized precision metal stamping combined with custom PCB RF shields provides a tailored solution for blocking unwanted electromagnetic radiation while maintaining signal integrity.

### Material Of EMI RFI Protection in High-Frequency Electronic Devices with Customized Precision Metal Stamping **Custom PCB RF Shields**

### Material and Testing Report

and Testing Report	
Aluminum	Aluminum 2024 Aluminum 5052 Aluminum 6061-T6
	Aluminum 6063 Aluminum 7075 Aluminum MIC 6
	SUS303, SUS304, SS316, SS316L
	UNS S32304 UNS S32003 UNS S31803 UNS
Stainlesss steel	S32205
	UNS S32760 UNS S32750 UNS S32550 UNS
	S32707 UNS S33207
	12L14 4140 1018 1045 12L14 4130 4142 ,O1 tool
Steel	steel,
	D2 tool steel,A36 1008 ,Alloy42
Titanium	Grades 1-4 Grade 5 Grade 9
Brass	260, C360, H59, H60, H62, H63, H65, H68, H70
Copper	
Phosphor bronze	
Bronze	C932
Carbon fiber	
PTFE	Polytetrafluoroethylene (PTFE)
Acetal	(Polyoxymethylene (POM)) [Delrin]
PEEK	Polycarbonate
Polystyrene	Polyether Ketone
Nylon	
ABS PVC	
Acrylic	
G-10 Garolite	
Fiberglass	
	Aluminum         Stainlesss steel         Steel         Titanium         Brass         Copper         Phosphor bronze         Bronze         Carbon fiber         PTFE         Acetal         PEEK         Polystyrene         Nylon         ABS         PVC         Acrylic         G-10 Garolite

Finish Resul	t
As Machined	Sharp edge and burrs will be removed
Bead Blast	The part surface is left with a smooth, matte appearance
Anodized	Type II creates a corrosion-resistant finish. Parts can be anodized in different colors—clear, black, red, and gold are most common—and is usually associated with aluminum.
	Type III is thicker and creates a wear-resistant layer in addition to the corrosion resistance seen with Type II.
Powder Coat	This is a process where powdered paint is sprayed onto a part which is then baked in an oven. This creates a strong, wear- and corrosion-resistant layer that is more durable than standard painting methods. A wide variety of colors are available to create the desired aesthetic.
Customized	Cotact us via email, skype, whatsapp. We will look into a finishing process for you.
Others	
Tolerance	+/-0.005mm
Lead Time	1-2 weeks for samples, 3-4 weeks for mass production
Drawing Accepted	Solid Works, Pro/Engineer, AutoCAD(DXF, DWG), PDF
Payment Terms	TT/Paypal/WestUnion

Industries Of EMI RFI Protection in High-Frequency Electronic Devices with Customized Precision Metal Stamping Custom PCB RF Shields

1. Aircraft parts

- 2. Automobile parts
- 3. Fixture parts
- 4. Medical parts
- 5. Petro chemical parts
- 6. Education parts

# Features Of EMI RFI Protection in High-Frequency Electronic Devices with Customized Precision Metal Stamping Custom PCB RF Shields

- 1. High precision
- 2. Short processing time
- 3. Easier customized/personalized

# Why Choose Us

### Our Advantages

### 1. Superior Shielding Effectiveness in Miniaturized Designs

Precision stamping allows for ultra-thin shields (as low as 0.05mm) that fit into tightly packed PCB layouts without compromising performance.

Example: A custom-stamped copper shield for a 28 GHz 5G phased-array antenna reduced RFI by 40 dB while occupying only 15% of the PCB area compared to bulkier alternatives.

### 2. Cost-Efficient High-Volume Production

Stamping dies are reusable, reducing per-unit costs for large-scale manufacturing.

Example: A stamped aluminum shield for IoT sensors cut production costs by 35% versus CNC machining, with no loss in shielding performance (tested to CISPR 32 standards).

### 3. Enhanced Thermal & Mechanical Reliability

Metal stamping enables the integration of heat sinks, thermal vias, or cooling fins directly into the shield structure. Example: A stamped nickel-silver shield for a high-power automotive radar module reduced junction temperatures by 12°C under full load, improving long-term reliability.

### 4. Regulatory Compliance & Customization for Global Markets

Shields can be engineered to meet FCC, CE, MIL-STD-461, or IEC 61000-4-3 requirements, ensuring market access worldwide.

Example: A custom-stamped beryllium copper shield for a medical MRI control system passed IEC 60601-1-2 EMI tests, enabling FDA approval for clinical use.



### Q1: Where can I get product & price information?

A1:Send us inquiry e-mail, we will contact you as we receive your mail.

Q2: How long can I get the sample?

A2:Depends on your specific items, within 3-7 days is required generally.

Q3: What kinds of information you need for quote?

A3:Kindly please provide the product drawing in PDF, and will be better you can provide in STEP or IGS.

Q4: What are the payment terms?

A4: We accept 50% as payment deposit, when the goods is done, we take photos for your check and you then pay the balance.

Q5: Are you a trading company or factory?

A5:We are direct factory with 10 experienced engineers and more than 650 employees as well approximate 2,000 square ft. workshop area.

### Q6: What shall we do if we do not have drawings?

A6:Please send your sample to our factory, then we can copy or provide you better solutions. Please send us pictures or drafts with dimensions (Length, Hight, Width), CAD or 3D file will be made for you if placed order.

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