Precision Stamped SMD PCB RF EMI Shield Cover for Electronics

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Xianheng
- Certification: ISO 9001:2015 SGS RoHS
- Model Number: RF-XG-41
- Minimum Order Quantity: 1 pcs
- Price: USD 0.01-0.5
- Packaging Details: Carton Wooden case
- Delivery Time: 5-8 days
- Payment Terms: T/T, Western Union, MoneyGram
- Supply Ability: 10000 SET per week

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
- Surface Finishing: Normal,tin Plating ,nickel Plating
- Package: Platic Bag ,Blister Box ,Tap Reel Or As Your Required

More Images

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Product Description

What We Can Provide

High-Frequency Precision Transforming Metal Sheets into Custom PCB RF Shields for Optimal Performance in Various Industries

Description Of High-Frequency Precision Transforming Metal Sheets into Custom PCB RF Shields for Optimal Performance in Various Industries

In the realm of high-frequency electronics, where the integrity of signals is paramount, custom PCB RF shields play a pivotal role in ensuring optimal performance. These shields, crafted through high-frequency precision metal stamping techniques, are designed to mitigate electromagnetic interference (EMI) and radio frequency interference (RFI), thereby safeguarding sensitive electronic components across diverse industries such as telecommunications, aerospace, automotive, and medical devices.

Material Of High-Frequency Precision Transforming Metal Sheets into Custom PCB RF Shields for Optimal Performance in Various Industries

Material and Testing Report		
Metal	Aluminum	Aluminum 2024 Aluminum 5052 Aluminum 6061-T6
		Aluminum 6063 Aluminum 7075 Aluminum MIC 6
	Stainlesss steel	SUS303, SUS304, SS316, SS316L
		UNS S32304 UNS S32003 UNS S31803 UNS S32205
		UNS S32760 UNS S32750 UNS S32550 UNS S32707 UNS S33207
	Steel	12L14 4140 1018 1045 12L14 4130 4142 ,O1 tool 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)
Plastic	Acetal	(Polyoxymethylene (POM)) [Delrin]
	PEEK	Polycarbonate
	Polystyrene	Polyether Ketone
	Nylon	
	ABS	
	PVC	
	Acrylic	
	G-10 Garolite Fiberglass	

Finish Result	
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 High-Frequency Precision Transforming Metal Sheets into Custom PCB RF Shields for Optimal Performance in Various Industries

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

Features Of High-Frequency Precision Transforming Metal Sheets into Custom PCB RF Shields for Optimal Performance in Various Industries

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

Our Advantages

Superior Shielding Effectiveness:
Custom-designed RF shields produced through high-frequency precision stamping offer unparalleled shielding effectiveness. The precise geometries and tight tolerances ensure minimal gaps and leaks, providing robust protection against EMI and RFI. This is crucial in high-frequency applications where even minor interference can lead to signal degradation or system failure.
Enhanced Design Flexibility:
Precision metal stamping allows for the creation of complex and customized shield designs that cater to specific application needs. Unlike off-the-shelf solutions, custom shields can be engineered to fit unique PCB layouts and component arrangements, optimizing space utilization and improving overall system performance. This design flexibility is particularly valuable in industries where compact and lightweight solutions are essential.
Consistent Quality and Reliability:
High-frequency precision stamping ensures consistent quality across large production runs. The use of advanced equipment and precision dies guarantees that each shield meets the same stringent standards, reducing the risk of defects and ensuring reliable performance in critical applications. This consistency is vital in industries like aerospace and medical devices, where safety and reliability are non-negotiable.
Cost-Efficiency in High-Volume Production:
For industries requiring large quantities of RF shields, precision metal stamping offers significant cost advantages. Once the dies are set up, the stamping process can rapidly produce shields at a low per-unit cost, making it an economical choice for mass production. Additionally, the minimal material waste and efficient production process further contribute to cost savings, making precision stamping a preferred manufacturing method for high-frequency PCB RF shields.

FAQ

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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