Precision Stamped SMD PCB RF EMI Shield Cover for High-Frequency Applications

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Xianheng
- Certification: ISO 9001:2015 SGS RoHS
- Model Number: RF-XG-40
- 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

Product Description

What We Can Provide

Transforming Metal Sheets into Custom PCB RF Shields Precision Metal Stamping for High-Frequency Applications

Description Of Transforming Metal Sheets into Custom PCB RF Shields Precision Metal Stamping for High-Frequency Applications

Precision metal stamping is a highly specialized manufacturing process that transforms flat metal sheets into custom-designed Radio Frequency (RF) shields for Printed Circuit Boards (PCBs). These shields are crucial components in high-frequency electronic applications, such as telecommunications, aerospace, and medical devices, where electromagnetic interference (EMI) and radio frequency interference (RFI) must be minimized to ensure optimal performance and reliability.

Material Of Transforming Metal Sheets into Custom PCB RF Shields Precision Metal Stamping for High-Frequency Applications

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	T/T,Paypal,WestUnion

Industries Of Transforming Metal Sheets into Custom PCB RF Shields Precision Metal Stamping for High-Frequency

Applications

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

Features Of Transforming Metal Sheets into Custom PCB RF Shields Precision Metal Stamping for High-Frequency Applications

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

Our Advantages

High Precision and Accuracy: Precision metal stamping enables the production of RF shields with extremely tight tolerances and intricate geometries. This level of precision ensures a perfect fit on the PCB, minimizing gaps and leaks that could compromise shielding effectiveness. In high-frequency applications, even minor imperfections can lead to significant performance degradation, making precision stamping essential.
Cost-Effectiveness: Compared to other manufacturing methods like CNC machining or 3D printing, precision metal stamping offers a more cost-effective solution for high-volume production. Once the dies are created, the stamping process can rapidly produce large quantities of identical RF shields at a lower per-unit cost, making it ideal for mass production in industries like consumer electronics and automotive.
Material Efficiency: Precision metal stamping optimizes material usage by minimizing waste during the manufacturing process. The dies are designed to maximize the number of shields that can be produced from a single metal sheet, reducing material costs and environmental impact. Additionally, the process allows for the use of thin metal sheets, which can be beneficial in applications where weight and space are critical factors.
Enhanced Shielding Performance: Custom-designed RF shields produced through precision metal stamping can be tailored to specific high-frequency application requirements. The shields can be engineered to provide optimal shielding effectiveness across a wide frequency range, ensuring that sensitive electronic components are protected from EMI and RFI. This level of customization is difficult to achieve with off-the-shelf shielding solutions, making precision stamping the preferred choice for high-performance applications.

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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