Precision-Stamped Nickel Silver RF Shields Factory Ultimate GHz-Frequency EMI Protection with Micron-Level Accuracy

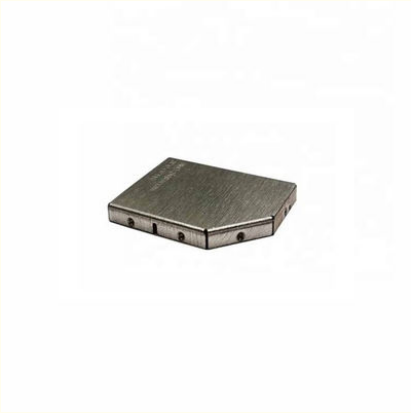
Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Xianheng
- Certification: ISO 9001:2015 SGS RoHS
- Model Number: RF-XG-43
- 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

Our Product Introduction

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Product Description

What We Can Provide

Precision-Stamped Nickel Silver RF Shields Factory Ultimate GHz-Frequency EMI Protection with Micron-Level Accuracy

Description Of Precision-Stamped Nickel Silver RF Shields Factory Ultimate GHz-Frequency EMI Protection with Micron-Level Accuracy

Nickel silver alloy RF shielding stands as the pinnacle of electromagnetic interference (EMI) mitigation for high-frequency applications. Engineered with precision, this advanced shielding solution combines the exceptional electrical conductivity of nickel silver—a copper-nickel-zinc alloy—with tailored manufacturing processes to deliver unmatched performance across GHz-range frequencies. Ideal for aerospace, telecommunications, medical devices, and 5G infrastructure, it addresses the growing demand for reliable, durable, and cost-effective EMI protection in compact, high-complexity systems.

Material Of Precision-Stamped Nickel Silver RF Shields Factory Ultimate GHz-Frequency EMI Protection with Micron-Level Accuracy

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 Precision-Stamped Nickel Silver RF Shields Factory Ultimate GHz-Frequency EMI Protection with Micron-Level Accuracy

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

Features Of Precision-Stamped Nickel Silver RF Shields Factory Ultimate GHz-Frequency EMI Protection with Micron-Level Accuracy

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

Why Choose Us

Our Advantages

Ultra-High Precision for Complex Geometries
Advanced stamping technologies enable the fabrication of intricate shield shapes—such as deep-drawn frames, perforated grids, and multi-layer enclosures—with micron-scale precision. This ensures perfect fitment in compact devices (e.g., smartphones, IoT sensors) while maintaining consistent electrical performance, minimizing signal leakage, and eliminating assembly mismatches.
Enhanced Mechanical Durability & Corrosion Resistance
Nickel silver's superior ductility and stress corrosion resistance allow stamped shields to withstand mechanical stresses (e.g., vibration, thermal cycling) and harsh environmental conditions (e.g., humidity, salt spray). Unlike plated alternatives, the homogeneous alloy structure prevents delamination or coating wear, ensuring decades of reliable operation in outdoor telecom towers, industrial machinery, and marine environments.
Cost-Effective High-Volume Production
Automated stamping lines (e.g., progressive dies, multi-station presses) enable rapid, repeatable manufacturing at scale—producing hundreds of parts per minute with minimal material waste. This efficiency reduces per-unit costs, accelerates time-to-market for OEMs, and supports just-in-time delivery for industries like consumer electronics, automotive, and medical devices.
Sustainable & Circular Manufacturing Practices
The factory prioritizes eco-friendly production: 100% recyclable nickel silver alloy, water-based lubricants (reducing VOC emissions), and closed-loop recycling systems for scrap metal. These practices align with global sustainability goals (e.g., EU RoHS, REACH) and reduce lifecycle environmental impact, making the shields ideal for green electronics, renewable energy systems, and circular economy initiatives.

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.

Shenzhen Xianheng Technology Co.,Ltd

0086-13682614486 shawn@xianheng-tech.com cnc-metalmachining.com

Room 8-1409, Xingji jiayuan building 8-9#, HongXing community, Songgang street, Bao'an District, Shenzhen City China