High-Conductivity Copper Alloy Precision Hardware Components for New Energy Vehicles

Our Product Introduction

Basic Information

- Minimum Order Quantity: 1000
- Price: $+1~10+Pcs
- Delivery Time: 15-20
- Payment Terms: L/C, D/A, D/P, T/T, Western Union, MoneyGram
- Supply Ability: 3000+pcs+Month

Product Specification

- Material: T2-Y2 Copper
- Specifications: L=75mm;W=77.5mm;T=4.0MM
- Surface Treatment: Nickel Plating
- Production Processes: Cutting, Surface Pressing CNC、 Rivets, Nickel Plating

More Images

Our Product Introduction

Product Description

Product Overview
Our company specializes in the research, development, and production of high-performance copper alloy hardware and metal components for the new energy vehicle (NEV) industry. Our products are widely used in power battery systems, high-voltage connection systems, motor and electronic control systems, charging infrastructure, and thermal management systems. Utilizing premium copper and copper alloy materials along with precision manufacturing technologies and stringent quality control, we ensure superior electrical conductivity, mechanical strength, corrosion resistance, and heat dissipation performance.

Product Features

Superior Electrical Conductivity
Manufactured using high-purity copper (C1100, T2), brass (C2680), phosphor bronze (C5191), and beryllium copper (C17200), our components provide ultra-low resistivity, enhancing current transmission efficiency and minimizing energy loss.

Excellent Corrosion Resistance
Surface treatment options such as silver plating, nickel plating, and tin plating significantly enhance resistance to oxidation, humidity, and sulfurization, ensuring long-term durability in high-voltage and high-temperature environments.

High Strength and Fatigue Resistance
Advanced alloy materials provide exceptional tensile strength, yield strength, and fatigue life, ensuring the reliability of components under prolonged vibration and high-load conditions.

Optimized Thermal Management Design
Selected high-thermal-conductivity copper alloys and optimized structural designs improve the heat dissipation efficiency of NEV power systems, reducing thermal losses and enhancing overall vehicle efficiency.

High-Precision Manufacturing and Consistency
State-of-the-art manufacturing processes, including CNC precision machining, numerical stamping, and laser cutting, achieve micron-level tolerance control, ensuring component dimensional stability and assembly reliability.

Compliance with International Quality and Environmental Standards
Our products meet the strict quality and environmental requirements of the NEV industry and are certified under RoHS, REACH, and IATF 16949.

Product Applications

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