

Tungsten-copper bracket for communication optical modules



Overview

Innovative alloys, like the new tungsten-copper material developed by Sirui New Materials, are emerging to address the intense heat in 400G+ modules. available ceramic feed through and glass feed through structure. This type of package products can meet the requirements of air tightness and thermal insulation. Heatspreaders for Opto electronics, Wireless communication, LED substrates Cu-W is a combination of Tungsten (W) which has low thermal expansion, and Copper (Cu) which has high thermal conductivity. The thermal expansion can be adjusted to surrounding materials such as Alumina and Kovar. Also, with. This @Metal Powder Industries Federation (MPIF) 2024 PM Design Excellence Awards Competition Metal Injection Molding (MIM) Award of Distinction optical communications module bracket is used in a 5G communication base-station. Numerous heating components are mounted on the bracket surface, which. Contrary to injection molding technology, Spectra-Mat's unique technology to infiltrate copper in an highly homogeneous sintered tungsten matrix guarantees the homogeneity of thermal conductivity of the tungsten copper submounts along the three axes, a very important requirement for multi diodes. An optical module housing is the protective outer shell that encloses the internal components of an optical transceiver module. These modules are essential for converting electrical signals into light signals and vice versa, forming the backbone of fiber optic communication systems in data centers.

Article Content

Copper Tungsten Alloys Manufacturers

The tungsten copper submounts can be supplied plated for use of ...

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ITLA butterfly package_Optical ...

Under special requirements, the glass melt seal feed through structure can also be used. The heat dissipation plate of the package is generally made of tungsten ...

ITLA butterfly package_Optical Communication_PRODUCT_Tcpack IIc

Under special requirements, the glass melt seal feed through structure can also be used. The heat dissipation plate of the package is generally made of tungsten copper, molybdenum copper material, ...

Cu-W (Copper-Tungsten) | Sumitomo Electric

Heatspreaders for Opto electronics, Wireless communication, LED substrates. Cu-W is a combination of Tungsten (W) which has low thermal expansion, and Copper (Cu) which has high thermal ...

China Chromium Zirconium Copper alloy,Copper Chromium ...

Sirui is established for nearly 30 years with committing to R& D, production and sales of advanced series copper alloy materials based on copper-chromium. Serves many Fortune 500 customers in the fields ...

2024 MPIF MIM Award of Distinction

This ultra thin base plate has a flatness requirement of less than .03mm. MIM processing. The product cycle time for this electroplated 5050 copper tungsten bracket while reducing the cost by...

ITLA butterfly package-Optispac,Inc.

The heat dissipation plate of the package is generally made of tungsten copper, molybdenum copper material, with the highest thermal conductivity of 260W/m.K.

Copper Tungsten Alloys Manufacturers

The tungsten copper submounts can be supplied plated for use of AuSn preform or with patterned or unpatterned AuSn metallization with AuSn solder of different compositions.

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Implementation Agreement for a 3.2Tb/s Co-Packaged (CPO) ...

This document defines the technical specifications for a 3.2 Tb/s Co-packaged Optical (CPO) transceiver module, including mechanically compatible Copper Cable Attach modules, see ...

Optical Module Housings Guide

Innovative alloys, like the new tungsten-copper material developed by Sirui New Materials, are emerging to address the intense heat in 400G+ modules. These alloys provide high thermal ...

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