

Global Leading Manufacturer & High Thermal Solutions of Metal Laminate

High Thermal Conductivity IMS CCL Datasheet

江西博秘电子有限公司

JiangXi BOYU Electronics CO.,Ltd



JIANGXI BOYU 应函博称



ntroduction

JiangXi BOYU Electronics Co., Ltd, is a high-tech enterprise which integrates R&D, production, service and one-stop solutions and concentrates on providing high-quality products of Aluminum and Copper Based CCL and special metal CCL to our customers.

The company has been awarded a series of international certifications such as ISO, UL, SGS, IATF16949 and ROHS.

The company is committed to the global market and has successfully exported products to Europe, USA, Southeast Asia and other countries and regions.

The company adheres to the business strategy of "Using the most advanced technology, Training high-quality employees, Manufacturing high-quality products", striving for innovation and contributing to the development of new technology and new materials for the electronic industry.

产品应用

汽车照明

Car Lighting

新能源 IGBT

New energy IGBT

充电桩

Charging Pile

电机电控

Electric Control

助力转向

Power Steering

工控散热方案

Industrial cooling solutions

产品特性

高导热特性

High thermal conductivity

出色的耐热性

Excellent heat resistance

符合 RoHS 要求

Meet the RoHS requirements

无卤素板材

Halogen-free

UL E333613

UL E333613

符合 UL 94V-0

Comply with UL 94V-0



JIANGXI BOYU 这两博秘



AL-01-B50 产品性能表

性能	测试方法	单位	指标值	典型值		
PROPERTIES	TEST METHOD	UNIT	INDICATOR	TYPICAL VALUES		
热性能 THERMAL PROPERTIE	S					
基板导热系率 Product Thermal Conductivity	T0-220	W/m. K		5. 0		
绝缘层热导率 Dielectric Thermal Conductivity	ASTM D5470	W/m. K	_	2. 75		
热阻 Thermal resistivity	ASTM D5470	°C*in²/W	-	60μm 75μm 100μm 125μm 150μm 0.034 0.042 0.056 0.070 0.085		
玻璃化温度 Tg	DSC	°C	_	150		
热分解温度 Td	TGA(Wt5%loss)	°C	≥360	380		
最大操作温度 MOT	UL94	°C	_	130		
热应力 Thermal stress	Solder floating 288°C	Minute	≥15	25		
电性能 ELECTRICAL PROPERTIES						
体积电阻率 Volume resistivity	IPC-TM-650 2.5.17	MΩ.cm	≥10°	10°		
表面电阻率 Surface resistivity	IPC-TM-650 2.5.17	MΩ	≥10⁴	10 ⁷		
介电常数 Dielectric constant	IPC-TM-650 2.5.5.3	1MHz	_	4. 9		
耗损系数 Dissipation factor	IPC-TM-650 2.5.5.3	1MHz	-	0.016		
耐电压测试 Hi-pot Test	T/CPCA4105 B. 11	AC/KV		1.5 3.0 4.0 5.0 5.5		
耐电弧 Arc resistance	IPC-TM-650 2.5.1	S	≥60	120		
机械性能 MECHANICAL PROPERTIES						
剥离强度 Peel strength	IPC-TM-650 2.4.8	Lb/in	≥6	6		
吸水率 Moisture absorption	D-24/23	%	≤ 1.5	0. 2		
		PPM/°C		19		
热膨胀系数 CTE	TMA < Tg					
	> Tg	PPM/°C	_	48		
机构评级&阻燃性 AGENCY RATINGS&DURABILITY						
U.L.可燃性 U.L. Flammability	UL94	Class	V-0	V-0		
相对漏电起痕指数 CTI	IEC60112	V	≥600	600		

OUR VALUES Globalization Care Cooperation Win-Win

高导热金属基覆铜板

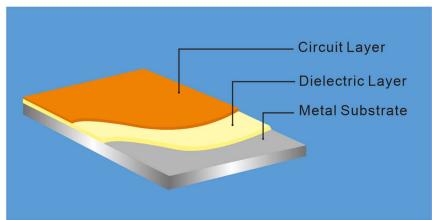
High Thermal Conductivity IMS CCL

产品介绍

Introduction of products

高导热金属基覆铜板能够针对不同的应用领域要求、各种铜厚、绝缘层特性、不同金属背板的需求,提供符合客户要求的高性价比产品。

For different areas of application requirements, various copper thickness, insulating layer characteristics and the need of different metal backboard, we can provide cost-effective metal based copper clad laminate with high thermal conductivity that meet customers' requirements.



产品规格

Specification of products

Standard BOYU Material Overview					
Item	Tolerance	Туре	AL-01-B50		
Dielectric Thickness	± 10 μm	Standard	60、75、100、125		
	Σ 10 μπ	Special	150		
Base Copper	± 10% μm	Standard	18、35、70、105		
	± 10 /6 μπ	Special	140、210		
Aluminum Thickness	± 0.02mm	Standard	0.5-3.0		
	± 0.0211111	Special	3.0-5.0		
Aluminum Type	N/A	Standard	1060、3003、5052		
Lamiante Size	± 2mm	Standard	460X610、510X610、525X625、500X600		
MOQ request	N/A	Above Special	MOQ 100 sheet		
Remark:		Finish thickness=Aluminum Thickness +Thickness of Thermal Conductive+Base Copper			



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