

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





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 automotive IGBT

充电桩

Charging Pile

电机电控

Electric Control

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





AL-01-B40 产品性能表

性能 PROPERTIES		测试方法 TEST METHOD		单位 UNIT	指标值 INDICATOR	典型值 TYPICAL VALUES					
热性能 THERMAL PROPERTIES											
基板导热率 Product Thermal Conductivity		T0-220		W/m. K	_	4. 0					
绝缘层热导率 Thermal conductivity		ASTM	D5470	W/m. K	-	2. 45					
热阻	Thermal resistivity	ASTM	D5470	°C*in²/W	_	60μm 0.038	75μm 0.047	100μm 0.063	125 μm 0.079		
玻璃化温度 Tg		DS		°C	_	150					
热分解温度	Td	TGA(Wt5%loss)		°C	≥360	400					
—————————————————————————————————————	且度 MOT		94	°C	_	130					
热应力	Thermal stress	ess Solder floating 288°		Minute	≥15	25					
电性能 ELECTRICAL PROPERTIES											
体积电阻率	Volume resistivity	IPC-TM-650 2.5.17		MΩ.cm	≥10 ⁶	10^{8}					
表面电阻率	Surface resistivity	IPC-TM-650 2.5.17		MΩ	≥10 ⁴	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	_	0.017					
耐电压测试	Hi-pot Test	T/CPCA4	105 B. 11	AC/KV	_	2.0	4.0	4.5	6.0		
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	≥8	8. 5					
吸水率	Moisture absorption	D-24			≤1.5						
计除心文券	СТЕ	тма	<tg< td=""><td>PPM/℃</td><td>_</td><td colspan="3">21</td><td></td></tg<>	PPM/℃	_	21					
热膨胀系数	CIE		>Tg	PPM/℃	_		5	60			
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			≥600	600					

OUR VALUES Globalization Care Cooperation Win-Win

高导热金属基覆铜板

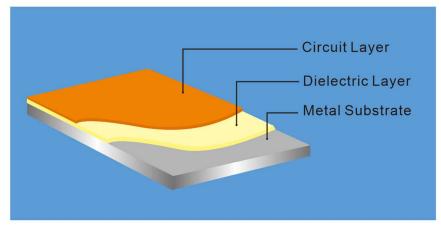
High Thermal Conductivity IMS CCL

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-B40					
Dielectric Thickness	± 10 μm	Standard	60、75、100、125					
Dielectric Tilickness	- 10 μπ	Special	150					
Base Copper	± 10% μm	Standard	18、35、70、105					
Dase Coppei	± 10 /6 μπ	Special	140、210					
Aluminum Thickness	± 0.02mm	Standard	0.5-3.0					
Aluminum Finckness	± 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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