



Global Leading Manufacturer & High Thermal Solutions of Metal Laminate

High Thermal Conductivity IMS/MCCL Datasheet

江西博钰电子有限公司

JiangXi BOYU Electronics CO.,Ltd





Introduction

JiangXi BOYU Electronics 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
- 大功率照明
- High power lighting
- 工控散热方案
- Industrial cooling solutions
- 电源模块
- Power Module
- 安防
- Security

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-B20 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	—	2.0			
绝缘层热导率 Thermal conductivity	ASTM D5470	W/m.K	—	1.6			
热阻 Thermal resistivity	ASTM D5470	°C*in ² /W	—	60 μm	75 μm	100 μm	125 μm
				0.058	0.073	0.097	0.121
玻璃化温度 T _g	DSC	°C	—	130			
热分解温度 T _d	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 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	—	4.8			
耗损系数 Dissipation factor	IPC-TM-650 2.5.5.3	1MHz	—	0.02			
耐电压测试 Hi-pot	T/CPCA4105 B.11	AC/KV	—	1.5	3.5	4.0	5.0
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			
吸水率 Moisture absorption	D-24/23	%	≤0.5	0.15			
	IPC-TM-650 2.6.2.1						
热膨胀系数 CTE	TMA	< T _g	PPM/°C	—	23		
		> T _g	PPM/°C	—	55		
机构评级&阻燃性 AGENCY RATINGS&DURABILITY							
U.L.可燃性 Flammability	UL94	Class	V-0	V-0			
相对漏电起痕指数 CTI	IEC60112	V	≥600	600			

高导热金属基覆铜板

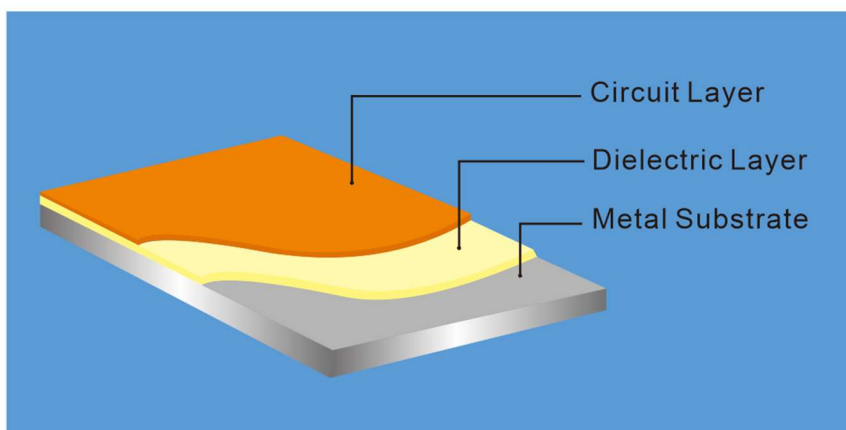
High Thermal Conductivity IMS CCL

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	Type	AL-01-B20
Dielectric Thickness	$\pm 10 \mu\text{m}$	Standard	100、120、180
		Special	75
Base Copper (μm)	$\pm 10\% \mu\text{m}$	Standard	35、70、105
		Special	140、210
Aluminum Thickness (mm)	$\pm 0.02\text{mm}$	Standard	0.5-3.0
		Special	3.0-5.0
Aluminum Type	N/A	Standard	1060、3003、5052
Laminate Size(mm)	$\pm 2\text{mm}$	Standard	1000X1200、1050X1250、1200X1500
MOQ request	N/A	Above Special	Specified (MOQ 100sheet)
Remark:		Finish thickness=Aluminum Thickness +Thickness of Thermal Conductive+Base Copper	

Globalization
Care
Cooperation
Win-Win

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