



Global Leading Manufacturer & High Thermal Solutions of Metal Laminate

High Thermal Conductivity IMS CCL Datasheet

江西博钰电子有限公司

JiangXi BOYU Electronics CO.,Ltd





Introduction

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

汽车内、外部照明系统

Automotive interior and exterior lighting system

汽车 AC-DC 转换模块

New energy automotive AC-DC module

汽车充电系统

Automotive charging system

超高散热方案

Ultra-high heat dissipation scheme

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-B80 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							
基板导热系数 Product Thermal Conductivity	T0-220	W/m. K	—	8.0			
绝缘层热导率 Thermal conductivity	ASTM D5470	W/m. K	—	3.2			
热阻 Thermal resistivity	ASTM D5470	°C. in ² /W	—	60μm	75μm	100μm	120μm
				0.029	0.036	0.048	0.061
玻璃化温度 T _g	DSC	°C	—	170			
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	—	5.2			
损耗系数 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	—	1.0	2.8	3.5	4.5
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			
	IPC-TM-650 2.6.2.1						
热膨胀系数 CTE	TMA	< T _g	PPM/°C	—	18		
		> T _g	PPM/°C	—	35		
机构评级&阻燃性 AGENCY RATINGS&DURABILITY							
U.L.可燃 U.L. 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

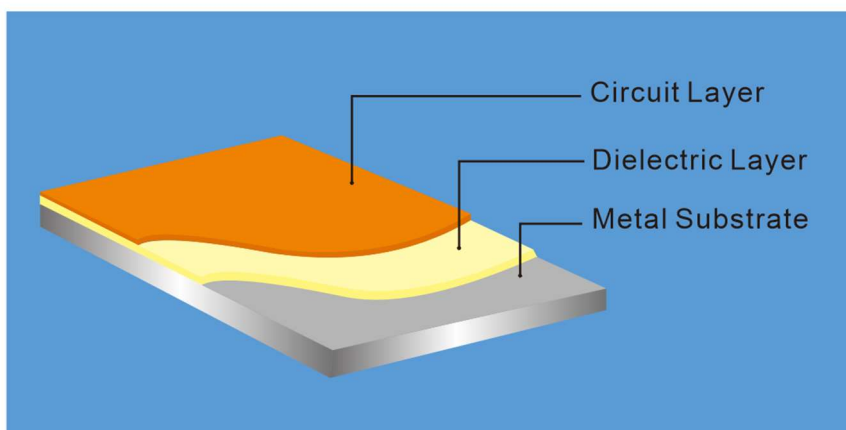
High Thermal Conductivity IMS CCL

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		
BOYU Material Type		AL-01-B80
Thickness of Thermal Conductive (μm)	Mass Production	75、100、125
	Sample	150
Base Copper (μm)	Mass Production	18、35、70、105
	Sample	140、210
Aluminum Thickness (mm)	Mass Production	0.5-3.0
	Sample	3.0-5.0
Aluminum Type	Mass Production	1060/3003、5052
Laminate Size(mm)	Mass Production	460X610、510X610、525X625、500X600
	Sample	Specified (MOQ 100sheet)
Remark:	Finish thickness=Aluminum Thickness +Thickness of Thermal Conductive+Base Copper	

Globalization
Care
Cooperation
Win-Win

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[Http://www.boyu-global.com](http://www.boyu-global.com)

E-mail: sales@boyu-global.com

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