



## Global Leading Manufacturer of High Thermal Conductivity IMS CCL

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





## CU-01-B50 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				
<b>热性能 THERMAL PROPERTIES</b>								
基板导热系数 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*in <sup>2</sup> /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				
<b>电性能 ELECTRICAL PROPERTIES</b>								
体积电阻率 Volume resistivity	IPC-TM-650 2.5.17	MΩ.cm	≥10 <sup>6</sup>	10 <sup>8</sup>				
表面电阻率 Surface resistivity	IPC-TM-650 2.5.17	MΩ	≥10 <sup>4</sup>	10 <sup>7</sup>				
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				
<b>机械性能 MECHANICAL PROPERTIES</b>								
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							
<b>机构评级&amp;阻燃性 AGENCY RATINGS&amp;DURABILITY</b>								
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				



## 高导热金属基覆铜板

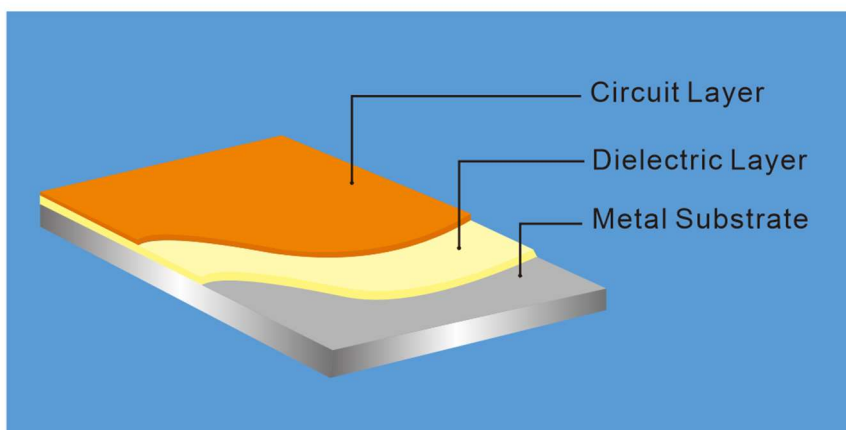
### High Thermal Conductivity IMS CCL

#### 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	CU-01-B50
Dielectric Thickness	$\pm 10 \mu\text{m}$	Standard	60、75、100、125
		Special	150
Base Copper	$\pm 10\% \mu\text{m}$	Standard	18、35、70、105
		Special	140、210
Copper Thickness	$\pm 0.02\text{mm}$	Standard	0.2-2.0
		Special	2.8
Laminate Size	$\pm 2\text{mm}$	Standard	460X610、510X610、 533X610、500X600
		Special	Specified (MOQ 500 KG)
Remark:	Finish thickness=Copper 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](mailto:sales@boyu-global.com)

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