



## 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

可弯折应用

Bending application

3D 造型灯

3D Modelight Lamp

汽车尾灯

Automotive Taillight

### 产品特性

可弯折性

Flexible

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-BF 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**

绝缘层热导率 Thermal Conductivity	ASTM D5470	W/m.K	—	0.4	
热阻 Thermal Resistivity	ASTM D5470	°C*in <sup>2</sup> /W	—	50 μm 0.194	70 μm 0.271
玻璃化温度 T <sub>g</sub>	DSC	°C	—	130	
热分解温度 T <sub>d</sub>	TGA (Wt5% loss)	°C	≥360	370	
最大操作温度 MOT	UL94	°C	—	130	
热应力 Thermal Stress	Solder dipping 288°C 10S	Times	3	3	

**电性能 ELECTRICAL PROPERTIES**

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>
耐电压测试 Hi-pot Test	T/CPCA4105 B.11	AC/KV	—	0.8 1.5

**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 IPC-TM-650 2.6.2.1	%	≤1.5	0.15

**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	≥400	400

## 金属基覆铜板

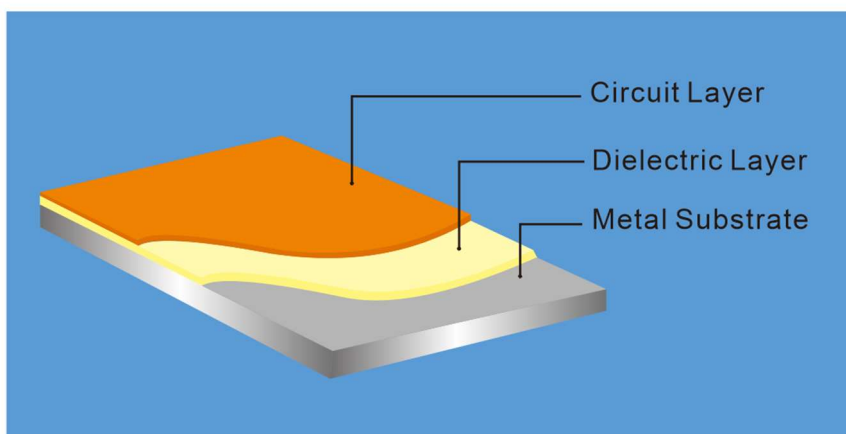
### IMS CCL

#### 产品介绍

#### Introduction of products

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 that meet customers' requirements.



#### 产品规格

#### Specification of products

Standard BOYU Material Overview			
Item	Tolerance	Type	AL-01-BF
Dielectric Thickness	$\pm 10 \mu\text{m}$	Standard	50、70
		Special	20
Base Copper ( $\mu\text{m}$ ) Rolled copper foil	$\pm 10\% \mu\text{m}$	Standard	35
		Special	25
Aluminum Thickness (mm)	$\pm 0.02\text{mm}$	Standard	0.6-1.5
		Special	0.4
Aluminum Type	N/A	Standard	1060、3003
Laminate Size(mm)	$\pm 2\text{mm}$	Standard	500X1200、600X1000
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

江西博钰电子有限公司

JiangXi BOYU Electronics Co., Ltd.

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

E-mail: [sales@boyu-global.com](mailto:sales@boyu-global.com)

Copyright: 202307