



# 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 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

特殊LED照明

Special LED Lighting

温度传感器

Temperature Sensor

工业控制模块

Industrial Control Module

锂电池

Lithium Battery

### 产品特性

高导热特性

High Thermal Conductivity

出色的耐腐蚀性

Excellent Corrosion Resistance

符合RoHS要求

Meet The RoHS Requirements

无卤素板材

Halogen-free

符合UL 94V-0

Comply With UL 94V-0





## SS-01-B10 产品性能表

(Criterion: Typical value is based on specimen of 0.6mm Stainless Steel\200 $\mu$ m dielectric just for reference.)

性能 PROPERTIES	测试方法 TEST METHOD	单位 UNIT	指标值 INDICATOR	典型值 TYPICAL VALUES
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### 热性能 THERMAL PROPERTIES

绝缘层热导率 Thermal Conductivity	ASTM D5470	W/m.K	—	1.0
热阻 Thermal Resistivity	ASTM D5470	$^{\circ}\text{C}\cdot\text{in}^2/\text{W}$	—	0.12
玻璃化温度 TG	DSC	$^{\circ}\text{C}$	—	110
热分解温度 TD	TGA(Wt5%loss)	$^{\circ}\text{C}$	$\geq 360$	380
热应力 Thermal Stress	Solder floating 288 $^{\circ}\text{C}$	Sec	$> 30$	60

### 电性能 ELECTRICAL PROPERTIES

体积电阻率 Volume Resistivity	IPC-TM-650 2.5.17	$\text{M}\Omega\cdot\text{cm}$	$\geq 10^6$	$10^8$
表面电阻率 Surface Resistivity	IPC-TM-650 2.5.17	$\text{M}\Omega$	$\geq 10^4$	$10^7$
介电常数 Dielectric Constant	IPC-TM-650 2.5.5.3	1MHz	—	4.8
损耗系数 Dissipation Factor	IPC-TM-650 2.5.5.3	1MHz	—	$\leq 0.02$
击穿电压 Breakdown voltage	IPC-TM-650 2.5.6.2	ACKV	—	7.0
耐电弧 Arc Resistance	IPC-TM-650 2.5.1	Sec	$\geq 60$	120

### 机械性能 MECHANICAL PROPERTIES

剥离强度 Peel Strength	IPC-TM-650 2.4.8	Lb/in	$\geq 8$	8.0
吸水率 Moisture Absorption	D-24/23 IPC-TM-650 2.6.2.1	%	$\leq 1.5$	0.5

### 机构评级&阻燃性 AGENCY RATINGS&DURABILITY

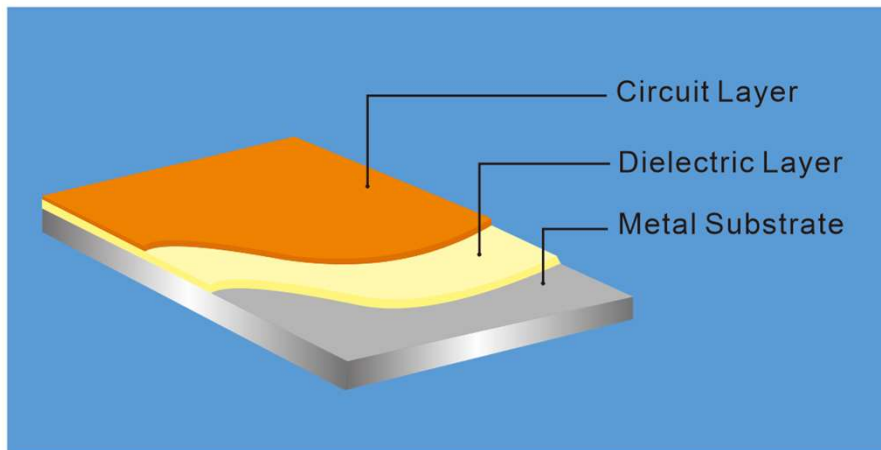
U.L.可燃性 U.L. Flammability	UL94	Class	V-0	V-0
相对漏电起痕指数 (CTI)	IEC60112	V	$\geq 600$	600

## 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			
项目Item	公差Tolerances	TYPE	SS-01-B 10
介质层厚度Dielectric Thickness (μm)	±10	Standard	100、120、150、200
		Special	75
铜箔厚度Base Copper (μm)	±10%	Standard	35、70、105
		Special	140、210
不锈钢厚度Stainless Steel Thickness (mm)	±0.02	Standard	0.5、0.6、0.8、1.0
		Special	1.5
不锈钢型号Stainless Steel Type	N/A	Standard	SUS304、SUS316
生产尺寸Laminate Size (mm)	±2	Standard	500×600
最低订量MOQ request	N/A	Above Special	MOQ 100Sheet
备注Remark	Finish thickness=Ferrum Thickness + Dielectric Thickness + Base Copper		



# Globalization Care Cooperation Win-Win

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