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

汽车照明
Car lighting
新能源 IGBT
New energy automotive IGBT
充电桩
Charging Pile
电机电控
Electric Control
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

AL-01-B30 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	TO-220	W/m.K	—	3.0
绝缘层热导率 Thermal conductivity	ASTM D5470	W/m.K	—	2.2
热阻 Thermal resistivity	ASTM D5470	℃*in²/W	—	60μm 75μm 100μm 125μm 150μm 0.042 0.053 0.070 0.088 0.106
玻璃化温度 Tg	DSC	℃	—	150
热分解温度 Td	TGA(Wt5%loss)	℃	≥360	380
最大操作温度 MOT	UL94	℃	—	130
热应力 Thermal stress	Solder floating 288℃	Minute	≥15	25
电性能 ELECTRICAL PROPERTIES				
体积电阻率 Volume resistivity	IPC-TM-650 2.5.17	MΩ.cm	$\geq 10^6$	10^8
表面电阻率 Surface resistivity	IPC-TM-650 2.5.17	MΩ	$\geq 10^4$	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 Test	T/CPCA4105 B.11	AC/KV	—	2.0 4.0 4.5 6.0 6.5
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	≥8	8
吸水率 Moisture absorption	D-24/23 IPC-TM-650 2.6.2.1	%	≤0.5	0.2
热膨胀系数 CTE	TMA <Tg	PPM/℃	—	22
	TMA >Tg	PPM/℃	—	53
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	≥600	600

高导热金属基覆铜板

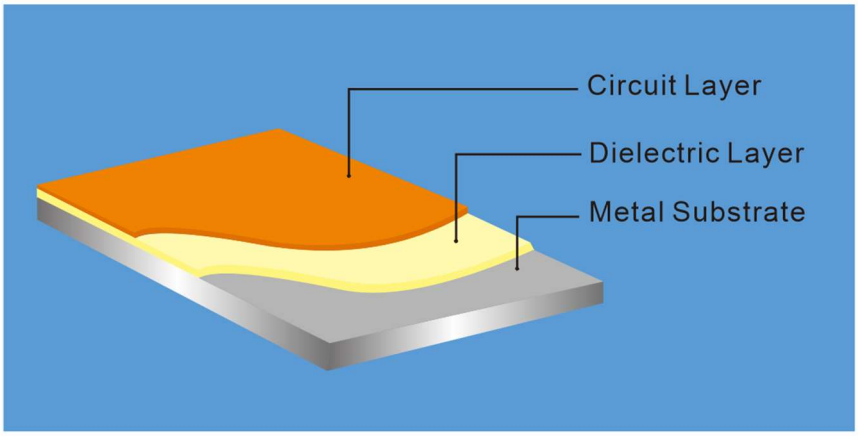
High Thermal Conductivity IMS CCL

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-B30
Dielectric Thickness	± 10 μm	Standard	60、75、100、125
		Special	150
Base Copper	± 10% μm	Standard	18、35、70、105
		Special	140、210
Aluminum Thickness	± 0.02mm	Standard	0.5-3.0
		Special	3.0-5.0
Aluminum Type	N/A	Standard	1060、3003、5052
Lamiante Size	± 2mm	Standard	460X610、510X610、525X625、500X600
MOQ request	N/A	Above Special	MOQ 100 sheet
Remark：		Finish thickness=Aluminum Thickness +Thickness of Thermal Conductive+Base Copper	

江西博钰电子有限公司

JiangXi BOYU Electronics Co.,Ltd.
Http://www.boyu-global.com
E-mail：sales@boyu-global.com