



DL 涂覆型 PI 无胶双面挠性覆铜板

DL Casting PI Adhesiveless Double Side FCCL

特点

- 优异的耐热性、尺寸稳定性和耐化学性
- 优异的机械性能和电性能。
- 不含卤素，阻燃性达到 UL94 VTM-0 级
- 满足 RoHS 指令要求，不含铅、汞、镉、六价铬、多溴联苯、多溴联苯醚等

FEATURES

- Excellent soldering reliability, dimensional stability and chemical resistance
- Excellent mechanical and electrical properties .
- Halogen free, Flammability UL94 VTM-0.
- Compatible with EU RoHS directive, free of Pb,Hg,Cd, Cr⁶⁺,PBB,PBDE, etc..

性能表 GENERAL PROPERTIES

性能项目 Test Item	测试方法 Test Method	单位 Unit	IPC 标准值* Standard	典型值 Typical Value
				DL 1012DS
剥离强度 Peel Strength 90°	IPC-TM-650,No.2.4.9 Method A Method C	N/mm	≥0.525 ≥0.525	1.52 1.53
热应力 Thermal Stress	IPC-TM-650,No.2.4.13	-	Pass	Pass
尺寸稳定性 Dimensional Stability	IPC-TM-650,No.2.2.4 Method B	%	±0.15	MD: 0.0251 TD: 0.011
耐化学性 Chemical Resistance	IPC-TM-650,No.2.3.2	%	≥80	>95
吸水率 Moisture Absorption	IPC-TM-650,No.2.6.2	%	≤2	1.06
体积电阻率 Volume Resistivity	IPC-TM-650,No.2.5.17	MΩ-cm	≥10 ⁶	1.03×10 ⁷
表面电阻 Surface Resistance	IPC-TM-650,No.2.5.17	MΩ	≥10 ⁵	2.65×10 ⁶
介电常数 1.1GHZ Dielectric Constant	IEC-61189-2-721	-	≤3.8	3.45
介电损耗 1.1GHZ Dissipation Factor	IEC-61189-2-721	-	≤0.01	0.0044
耐折性 MIT MIT	JIS C 6471 R0.38×4.9N	Times	-	>200
电气强度 Dielectric Strength	IPC-TM-650,No.2.5.6.1	V/μm	≥100	178

注释 Remarks: Certified to IPC-4204/25 Copper Clad Adhesiveless,Cast and Cured Polyimide

应用领域

电脑、移动电话、数码相机、摄录机、平板显示、仪器仪表、汽车电子等高端电子产品中。

APPLICATIONS

Computer, mobile phone, digital camera, VCR, flat panel display, apparatus and instrument, automotive electronics, etc..



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产品规格代码描述 Product Code Description

DL 10 12 D S

R – 压延铜箔 RA Copper Foil; S – 电解双光铜 ED Copper Foil

D – 双面板 Double Side; 非 D 表示另一面铜箔厚度

If not D , it is the thickness of the other side copper foil

铜箔厚度 Copper Foil Thickness: 12 - 12 μ m; 18 - 18 μ m

PI 膜厚度 PI Film Thickness: 05 -12.5 μ m; 08 - 20 μ m; 10 - 25 μ m

生益无胶型 FCCL 产品编号 Shengyi Adhesiveless FCCL Designation

常规产品表 SPECIFICATIONS OF STANDARD PRODUCTS

产品规格 Specifications	材料厚度 Thickness (μm)		铜箔类型 Copper Type	应用领域 Applications
	PI 膜/PI film	铜箔/Copper Foil		
DL 0512DS	12.5	12	ED	摄像头、LCM、TP 等 Camera ,LCM,TP etc.
DL 0812DS	20	12	ED	
DL 1012DS	25	12	ED	
DL 0512DT	12.5	12	ED	
DL 0812DT	20	12	ED	
DL 1012DT	25	12	ED	
DL 0518DT	12.5	18	ED	
DL 0818DT	20	18	ED	
DL 1018DT	25	18	ED	
DL 1025DT	25	25	ED	
DL 1035DS	25	35	ED	
DL 1070DT	25	70	ED	
DL 0512DR	12.5	12	RA	
DL 0812DR	20	12	RA	
DL 1012DR	25	12	RA	
DL 1018DR	25	18	RA	
DL0550DR	12.5	50	RA	

包装 PURCHASING INFORMATION

产品宽度250+2/-0mm或500+2/-0mm，每卷50+1/-0米或100+2/-0米；其它规格、尺寸可根据客户要求而定。

DL is supplied in rolls and standard width of 250+2/-0mm or 500+2/-0mm. Roll length is 50+1/-0m or

贮存条件 STORAGE CONDITION

贮存在干燥、无腐蚀气体的室内。板材以原始包装在温度5~35℃，湿度≤75%条件下贮存时，贮存期为一年。

Stored in dry room with humidity control and with no corrosive gases. One year when stored in the original packaging at temperature 5~35℃， humidity lower than 75%.