



SF202 无胶型双面挠性覆铜板

SF202 Double side adhesiveless flexible copper clad laminate (2-layer 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..

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..

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
				SF202 0512DT
剥离强度 Peel Strength 90°	IPC-TM-650,No.2.4.9 Method A Method C	N/mm	≥0.53 ≥0.53	1.2 1.2
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: 0.0139 TD: 0.0051
耐化学性 Chemical Resistance	IPC-TM-650,No.2.3.2	%	≥80	>85
吸水率 Moisture Absorption	IPC-TM-650,No.2.6.2	%	≤2	1.3
体积电阻率 Volume Resistivity	IPC-TM-650,No.2.5.17	MΩ-cm	≥10 ⁶	4.8×10 ⁸
表面电阻 Surface Resistance	IPC-TM-650,No.2.5.17	MΩ	≥10 ⁵	1.2×10 ⁶
介电常数 1MHZ Dielectric Constant	IPC-TM-650,No.2.5.5.9	-	≤3.8	3.2
介电损耗 1MHZ Dissipation Factor	IPC-TM-650,No.2.5.5.9	-	≤0.01	0.007
耐折性 MIT	JIS C 6471 R0.38×4.9N	Times	-	>80
电气强度 Dielectric Strength	IPC-TM-650,No.2.5.6.1	V/μm	≥100	150

注释 Explanations: Certified to IPC-4204/11 Copper Clad Adhesiveless Polyimide



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产品规格代码描述 Product Code Description

SF202 05 12 D T

R – 压延铜箔 RA Copper Foil; T – 反转铜箔 RTF

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

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 (μ m)		铜箔类型 Copper Type	应用领域 Applications
	PI 膜/PI film	铜箔/Copper Foil		
SF202 *12DT	12.5,20,25	12	反转铜箔 RTF	摄像头、LCM、TP 等 Camera ,LCM,TP etc.
SF202 *12DR	12.5,20,25	12	压延铜箔 RA	
SF202 *18DR	12.5,20,25	18	压延铜箔 RA	
SF202 *18DT	12.5,20,25	18	反转铜箔 RTF	电池板 Battery FPC
SF202 *35DT	12.5,20,25	35	反转铜箔 RTF	
SF202 *35DR	12.5,20,25	35	压延铜箔 RA	

新规格产品表 SPECIFICATIONS OF NEW MODELS

产品规格 Specifications	材料厚度 Thickness (μ m)		铜箔类型 Copper Type	应用领域 Applications
	PI 膜/PI film	铜箔/Copper Foil		
SF202 1003DE	25	3	电解铜箔 ED	精细线路 Fine-line
SF202 05*DR	12.5	6, 9	压延铜箔 RA	
SF202 0509DT	12.5	9	反转铜箔 RTF	
SF202 *12DR	20, 25	12	压延铜箔 HA	侧键 Side switch
SF202 05*DT	12.5	45,50,70	反转铜箔 RTF	无线充电 Wireless Charge
SF202 10*DT	25	45,50,70	反转铜箔 RTF	
SF202 2070DT	50	70	反转铜箔 RTF	
SF202 *105DT	12.5,20,25	105	反转铜箔 RTF	
SF202 *18WT	12.5,20,25	18、50	反转铜箔 RTF	
SF202 *182T	12.5,20,25	18、70	反转铜箔 RTF	
SF202 *183T	12.5,20,25	18、105	反转铜箔 RTF	

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。
SF202 is supplied in rolls and standard width of 250+2/-0mm or 500+2/-0mm. Roll length is 50+1/-0m or 100+2/-0m. Other sizes could be available upon request.

贮存条件 STORAGE CONDITION

贮存在干燥、无腐蚀气体的室内，板材以原始包装在室温条件下贮存时，贮存期为一年。无需冷藏或冷冻条件下贮存。

Store in the room of dryness and no corrosive gases. One year when stored in the original packaging at room temperature. The products do not require refrigeration and should not be frozen.