



# SF302 阻燃型聚酰亚胺薄膜挠性覆铜板

SF302 Flame-resistant type polyimide film based flexible copper clad laminate ( 3-layer FCCL)

## 特点

- 优秀的挠曲性、耐热性、耐化学性和尺寸稳定性。
- 剥离强度高，阻燃性达到UL94V-0级。
- 优秀的机械性能和电性能。
- 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。

## 应用领域

电脑、移动电话、数码相机、摄录机、办公自动化设备等。

## FEATURES

- Excellent flexibility, soldering reliability, chemical resistance and dimensional stability.
- High peel strength, and Flammability UL94 V-0.
- Excellent mechanical and electrical properties.
- Compatible with EU RoHS directive, free of Pb, Hg, Cd, Cr<sup>6+</sup>, PBB, PBDE, etc..

## APPLICATIONS

Computer, Mobile phone, Digital camera, VCR, OA equipment, etc..

## 性能表 GENERAL PROPERTIES

性能项目 Test Item	试验处理条件 Treatment Condition	单位 Unit	性能数据 Property Data			
			IPC 标准值 Standard		典型值 Typical Value	
			051813DR	103520DR	051813DR	103520DR
剥离强度 Peel Strength (90°)	A	N/mm	≥0.7	≥1.4	1.9	2.2
	288°C, 5s		≥0.5	≥1.2	1.8	2.1
耐折性 (MIT法) Folding Endurance (MIT)	R0.8X4.9N	次 Times	-		>800	>350
热应力 Thermal Stress	300°C, 30s	-	288°C, 10s No delamination		无分层、无起泡 No delamination	无分层、无起泡 No delamination
尺寸稳定性 Dimensional Stability	E-0.5/150	%	±0.2		±0.1	±0.1
					MD	±0.1
TD						
耐化学性 (剥离强度保持率) Chemical Resistance	暴露化学品后 After Chemical Exposure	%	≥80		>85	>85
介电常数 (1MHz) Dielectric Constant(1MHz)	C-24/23/50	-	≤4.0		3.6	3.5
介质损耗角正切 (1MHz) Dissipation Factor (1MHz)	C-24/23/50	-	≤0.04		0.031	0.030
体积电阻率 (湿热) Volume Resistivity	C-96/35/90	MΩ · cm	≥10 <sup>6</sup>		3.0×10 <sup>8</sup>	3.5×10 <sup>8</sup>
表面电阻 (湿热) Surface Resistance	C-96/35/90	MΩ	≥10 <sup>5</sup>		2.5×10 <sup>7</sup>	2.5×10 <sup>7</sup>

注释 Explanations: C = 湿热处理条件 Humidity conditioning;  
E = 恒温处理条件 Temperature conditioning.



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## 产品规格代码描述 Product Code Description

SF302 05 18 13 D R



## 常规产品表 SPECIFICATIONS OF STANDARD PRODUCTS

产品规格 Specifications	材料厚度 Thickness ( $\mu$ m)			单面板/双面板 Single/Double Side	铜箔类型 Copper Type
	PI 膜 PI film	铜箔 Copper Foil	胶粘剂 Adhesive		
SF302 051213DR	12.5	12	13	双面板 Double	压延铜箔 RA
SF302 051213DE	12.5	12	13	双面板 Double	电解铜箔 ED
SF302 051813SR	12.5	18	13	单面板 Single	压延铜箔 RA
SF302 051813DR	12.5	18	13	双面板 Double	压延铜箔 RA
SF302 051813SE	12.5	18	13	单面板 Single	电解铜箔 ED
SF302 051813DE	12.5	18	13	双面板 Double	电解铜箔 ED
SF302 101820SR	25	18	20	单面板 Single	压延铜箔 RA
SF302 101820DR	25	18	20	双面板 Double	压延铜箔 RA
SF302 101820SE	25	18	20	单面板 Single	电解铜箔 ED
SF302 101820DE	25	18	20	双面板 Double	电解铜箔 ED
SF302 103520SR	25	35	20	单面板 Single	压延铜箔 RA
SF302 103520SE	25	35	20	单面板 Single	电解铜箔 ED
SF302 103520DR	25	35	20	双面板 Double	压延铜箔 RA
SF302 103520DE	25	35	20	双面板 Double	电解铜箔 ED
SF302 203520SR	50	35	20	单面板 Single	压延铜箔 RA
SF302 203520SE	50	35	20	单面板 Single	电解铜箔 ED

## 包装 PURCHASING INFORMATION

产品宽度250+2mm或500+2mm，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。  
 SF302 is supplied in rolls and standard widths of 250+2mm or 500+2mm. Roll length is 50+1/-0m or 100+2/-0m. Other sizes could be available upon request.

## 储存条件 STORAGE CONDITION

贮存在干燥、无腐蚀气体的室内；板材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。

Stored 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.