



# SF701 液晶聚合物薄膜挠性覆铜板

SF701 Liquid crystal polymer film based flexible copper clad laminate (LCP- FCCL)

## 特点

- 低介电常数，低传输损耗。
- 优秀的耐热性、尺寸稳定性、耐化学性及电性能。
- 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

- Low dielectric constant, low dissipation loss.
- Excellent soldering reliability, dimensional stability, chemical resistance and electrical properties.
- Halogen-free, flammability UL94 VTM-0.
- Compatible with EU RoHS directive, free of Pb,Hg,Cd, Cr<sup>6+</sup>,PBB,PBDE, etc..

## 应用领域

手机天线、微波通信、高速网络设备、传感器、高频电路基板等

## APPLICATIONS

Smart phone antenna, Microwave communication, high speed network equipment, sensor, high frequency PCB, 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	
				1012DE	2012DE
剥离强度 Peel Strength 90°	IPC-TM-650,No.2.4.9 Method A Method C	N/mm	≥0.525 ≥0.525	1.2 1.2	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:-0.0363 TD:-0.0752	MD:-0.0221 TD:-0.0661
耐化学性 Chemical Resistance	IPC-TM-650,No.2.3.2	%	≥95	>97	>96
吸水率 Moisture Absorption	IPC-TM-650,No.2.6.2	%	≤0.05	0.04	0.04
体积电阻率 Volume Resistivity	IPC-TM-650,No.2.5.17	MΩ-cm	≥10 <sup>6</sup>	1.5×10 <sup>9</sup>	2.8×10 <sup>8</sup>
表面电阻 Surface Resistance	IPC-TM-650,No.2.5.17	MΩ	≥10 <sup>4</sup>	5.8×10 <sup>5</sup>	1.5×10 <sup>6</sup>
介电常数 10GHZ Dielectric Constant	SPDR	-	≤2.9	3.3	3.3
介电损耗 10GHZ Dissipation Factor	SPDR	-	≤0.003	0.0021	0.0018

注释 Explanations: \* Certified to IPC-4204/24 Copper Clad Liquid Crystal Polymer Adhesiveless



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## 产品规格代码描述 Product Code Description



## 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	应用举例 Applications
	LCP 膜 LCP film	铜箔 Copper Foil		
SF701 1012DT	25	12	反转铜箔 RTF	手机天线、微波通信、 高速网络等设备 Smart phone antenna, Microwave communication, high speed network equipment etc.
SF701 2012DT	50	12	反转铜箔 RTF	
SF701 1018DT	25	18	反转铜箔 RTF	
SF701 2018DT	50	18	反转铜箔 RTF	
SF701 1012DR	25	12	压延铜箔 RA	
SF701 2012DR	50	12	压延铜箔 RA	
SF701 1018DR	25	18	压延铜箔 RA	
SF701 2018DR	50	18	压延铜箔 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。SF701 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.