



SF701 液晶聚合物薄膜挠性覆铜板

SF701 Liquid Crystal Polymer Film Based 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, 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 | |
|-----------------------------------|--|------------|----------------------|--------------------------|--------------------------|
| | | | | 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 ⁶ | 1.5×10 ⁹ | 2.8×10 ⁸ |
| 表面电阻 Surface Resistance | IPC-TM-650, No.2.5.17 | MΩ | ≥10 ⁴ | 5.8×10 ⁵ | 1.5×10 ⁶ |
| 介电常数 10GHZ Dielectric Constant | SPDR | - | -- | 3.3 | 3.3 |
| 介电损耗 10GHZ Dissipation Factor | SPDR | - | ≤0.003 | 0.0021 | 0.0018 |

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

应用领域

手机天线、微波通信、高速网络设备、传感器、高频电路板等。

APPLICATIONS

Smart phone antenna, Microwave communication, high speed network equipment, sensor, high frequency PCB, etc..



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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 | 应用领域 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%.