Flexible circuit board materials
LCP (Liquid Crystal Polymer)

Applications

- Smartphone (Antenna module), Laptop, Tablet PC,
- 4K/8K display (High-speed FPC cable), Automotive component, Etc.

Suitable for high-speed large-volume data transmission of mobile devices with good high frequency property.

It is suitable for replacement of micro coaxial cable and millimeter-wave radar antenna.

General properties

- Solder heat resistance: JIS C 6471, 288°C solder float for 1min, No abnormality
- DK / DF @ 14GHz: BCDR*, A, 2.9 / 0.002
- DK / DF @ 10GHz: Cavity resonance, A, 3.3 / 0.002
- Water absorption: Internal method, 25°C 50h immersion, %, 0.04
- Peel strength: ED:18μm, IPC-TM-650 2.4.8, A, N/mm, 0.8
- Dimensional stability: IPC TM-650 2.2.4, After etching, %, MD 0.008 / TD 0.007
- Flammability: UL, A + E-168/70, 94V-0

Copper Foil

- Thickness: 1.0 (0.025), 2.0 (0.050), 3.0 (0.075), 4.0 (0.100), 5.0 (0.125), 6.0 (0.150)
- Film Thickness: 0.8N/mm

Dk 2.9 Df 0.002 @ 14GHz

Water absorption 0.04%