

EPA-M1 Heat Dissipation Aluminum Base CCL

Features:

- Complied with ROHS and REACH requirements.
- High thermal conductivity aluminum copper clad laminate thus effectively increasing the life of electronic products.
- Without fibre-glass, but ceramic base dielectric layer.
- Good machinability.
- Excellent dimensional stability.
- Electromagnetic compatibility and High cost performance.

Application:

- LED Backlight, Indoor/Outdoor lighting, Street LED lamp, Stage LED lights .

AL type: 1060#、1100#、3003#、5052#、6161#

AL Thickness: 0.6mm; 0.8mm; 1.0mm; 1.2mm; 1.5mm; 2.0mm; 3.0mm.

Copper: 1oz; 2oz; 3oz; 4oz.

Available Size: 500×600mm; 600×1000mm; 500×1200mm.

Performance

| Item | Test Method | Units | Index | | | | | |
|------------------------------|---------------------|------------|-----------------------|------|------|-----------------------|------|------|
| | | | | | | | | |
| Insulation thickness | IPC-TM-650 2.2.18.1 | μm | 100 | | | 150 | | |
| Thermal Stress | IPC-TM-650 2.4.13.1 | S | 288℃>120S | | | 288℃>120S | | |
| Peel Strength | IPC-TM-650 2.4.8.1 | N/mm | 1.5 | | | 1.5 | | |
| Hi-pot voltage | IPC-TM-650 2.5.6 | KV(DC) | 3.0 | | | 4.0 | | |
| Break-down Voltage | IPC-TM-650 2.5.6 | KV(AC) | 3.5 | | | 6.0 | | |
| CTI | IEC60112 | V | >600 | | | >600 | | |
| Glass Transition Temperature | IPC-TM-650 2.4.25 | ℃ | 130 | | | 130 | | |
| CTE(TMA) | IPC-TM-650 2.4.24 | %(50~260℃) | 0.5 | | | 0.5 | | |
| Surface Resistance | IPC-TM-650 2.5.17.1 | MΩ | 6.50×10 ⁴ | | | 6.50×10 ⁴ | | |
| Volume Resistivity | IPC-TM-650 2.5.17.1 | MΩ·cm | 2.04×10 ⁶ | | | 2.04×10 ⁶ | | |
| Insulation Resistance | JIS6481-1996 | Ω | 4.38×10 ¹⁰ | | | 4.38×10 ¹⁰ | | |
| Dielectric Constant 1MHZ | IPC-TM-650 2.5.5.9 | / | 5.2 | | | 5.2 | | |
| Dissipation Factor 1MHZ | IPC-TM-650 2.5.5.9 | / | 0.033 | | | 0.033 | | |
| Water Absorption | IPC-TM-650 2.6.2.1 | % | <0.5 | | | <0.5 | | |
| Thermal Conductivity | ASTM D 5470 | W/m·k | 1.0 | 1.5 | 2.0 | 1.0 | 1.5 | 2.0 |
| Thermal impedance | / | ℃/W | 0.65 | 0.52 | 0.42 | 0.77 | 0.64 | 0.51 |
| Flammability | UL94 | / | V-0 | | | V-0 | | |

◆ All data are subject to change without notice