



High Speed, Low Loss & Green

EM-888 / EM-888B

- Low Dk and Df ,excellent electrical performance
- Low moisture absorption
- Excellent CAF resistance
- Halogen, antimony and red phosphorus free
- For high speed sever, network and telecom application

Basic Laminate Property

| Item | | IPC-TM-650 | Test Condition | Unit | Typical Value |
|-------------------------------|-------|------------------|-------------------|--------|-------------------|
| Glass Transition Temp | | 2.4.24.3 | TMA | °C | 170 |
| | | 2.4.24.2 | DMA | °C | 210 |
| CTE, X-, Y-axis | | 2.4.24 | Pre-Tg, TMA | ppm/°C | 12/15 |
| CTE, Z-axis | | 2.4.24 | Alpha 1, TMA | ppm/°C | 50 |
| | | | Alpha 2, TMA | ppm/°C | 240 |
| Z-axis Expansion | | 2.4.24 | 50~260°C, TMA | % | 2.6 |
| Decomposition Temp. | | 2.4.24.6 | TGA | °C | 380 |
| Thermal Stress 10sec 288°C | | 2.4.13.1 | Clad | — | Pass Visual |
| | | | Etched | — | Pass Visual |
| Water Absorption | | 2.6.2.1 | E-1/105 + D-24/23 | % | 0.05 |
| Peel Strength (HTE) | 0.5oz | 2.4.8 | As Received | lb/in | 6.3 |
| Peel Strength (VLP) | 0.5oz | 2.4.8 | As Received | lb/in | 4.8 |
| Permittivity (RC 50%) | 1GHz | 2.5.5.9 | C-24/23/50 | — | 3.9 |
| | 10GHz | Cavity Resonator | | — | 3.8 |
| Loss tangent (RC 50%) | 1GHz | 2.5.5.9 | C-24/23/50 | — | 0.006 |
| | 10GHz | Cavity Resonator | | — | 0.008 |
| Volume Resistivity | | 2.5.17.1 | C-96/35/90 | MΩ-cm | >10 ¹⁰ |
| Surface Resistivity | | 2.5.17.1 | C-96/35/90 | MΩ | >10 ⁹ |
| Flame Resistance | | UL-94 | A&E-24/125 | — | V-0 |