



Synamic6GX

(FR15.1) Halogen Free, Very Low Loss & High Reliability Material

FEATURES

- Low Dk/Df@10GHz: 3.73/0.005
- High heat resistance: T300 >60min
- Lower Z-axis CTE
- Lower moisture absorption
- MOT 150°C

APPLICATIONS

High Speed Network equipment,
Server, Switch, Storage and Routers,
High Performance Computing,
Optical Modulus, etc.

GENERAL PROPERTIES

| Test Items | Test Method | Test Condition | Unit | Typical Value |
|--------------------------|----------------------------|-----------------------------------|--------|---------------|
| Tg | IPC-TM-650 2.4.25D | DSC | °C | 172 |
| Td | IPC-TM-650 2.4.24.6 | TGA (5% Wt. loss) | °C | 405 |
| T288 | IPC-TM-650 2.4.24 | TMA | min | >60 |
| T300 | IPC-TM-650 2.4.24 | TMA | min | >60 |
| Thermal Stress | IPC-TM-650 2.4.24.1 | 288°C, solder dipping | s | 100 |
| CTE | IPC-TM-650 2.4.24 (TMA) | Before Tg | ppm/°C | 31 |
| | IPC-TM-650 2.4.24 (TMA) | After Tg | ppm/°C | 205 |
| | IPC-TM-650 2.4.24 (TMA) | 50~260°C | % | 2.2 |
| Dielectric Constant | IPC-TM-650 2.5.5.9 (1GHz) | C-24/23/50 | - | 3.87 |
| | IPC-TM-650 2.5.5.5 (10GHz) | C-24/23/50 | - | 3.73 |
| Dissipation Factor | IPC-TM-650 2.5.5.9 (1GHz) | C-24/23/50 | - | 0.0023 |
| | IPC-TM-650 2.5.5.5 (10GHz) | C-24/23/50 | - | 0.0050 |
| Peel Strength (RTF3/10z) | IPC-TM-650 2.4.8 | After Thermal Stress 288°C/10s | N/mm | 0.9 |
| Water Absorption | IPC-TM-650 2.6.2.1 | D-24/23 | % | 0.08 |
| Flammability | UL 94 | A | Rating | V-0 |

Remarks:

1. Meet IPC-4101/130 specification sheet.
2. All the typical value is based on the 0.76mm (6*2116) specimen, but not guarantee data.
3. All the typical values listed above are for your reference only and not intended for specification. Please contact Shengyi Technology Co., Ltd. for detailed information. All rights from this data sheet are reserved by Shengyi Technology Co., Ltd.

Explanation: C=Humidity conditioning, D=Immersion conditioning in distilled water, E=Temperature conditioning. The first digit following the letter indicates the duration of preconditioning in hours, the second digit the preconditioning temperature in °C and the third digit the relative humidity.