



IT-958GTC

High Tg / Halogen Free / Very Low Loss Laminate & Prepreg

- Advanced High Tg Resin Technology
- Excellent electrical performance
- Lower Dk (3.70 @ 10GHz) and low Df (0.0070 @ 10GHz)
- Stable Dk/Df with different environment

Laminate properties

Items	IPC TM-650	Typical Value	Unit
Peel Strength, minimum A. Low profile copper foil	2.4.8	3.5~4.2	lb/inch
Volume Resistivity	2.5.17.1	1x10 ¹⁰	MΩ-cm
Surface Resistivity	2.5.17.1	1x10 ¹⁰	MΩ
Moisture Absorption, maximum	2.6.2.1	0.08	%
Permittivity (Dk, 50% resin content) A. 1GHz B. 2GHz C. 5GHz D. 10GHz	2.5.5.9 2.5.5.13 2.5.5.13 2.5.5.13	3.85 3.80 3.74 3.70	--
Loss Tangent (Df, 50% resin content) A. 1GHz B. 2GHz C. 5GHz D. 10GHz	2.5.5.9 2.5.5.13 2.5.5.13 2.5.5.13	0.0054 0.0057 0.0062 0.0070	--
Flexural Strength, minimum A. Length direction B. Cross direction	2.4.4	480-510 400-430	N/mm ²
Thermal Stress 10 s at 288°C A. Unetched B. Etched	2.4.13.1	Pass Pass	Rating
Flammability	UL94	V-0	Rating
Comparative Tracking Index (CTI)	IEC 60112 / UL 746	CTI 2(250-399)	Class (Volts)
Maximum Operating Temperature(MOT)	UL 746B	130	°C
Glass Transition Temperature(DSC)	2.4.25	175	°C
Decomposition Temperature	2.4.24.6	400	°C
X/Y Axis CTE (40°C to 125°C)	2.4.41	12/14	ppm/°C
Z-Axis CTE A. Alpha 1 B. Alpha 2 C. 50 to 260 Degrees C	2.4.24	40 230 2.5	ppm/°C ppm/°C %
Thermal Resistance A. T260 B. T288	2.4.24.1	>60 >60	Minutes Minutes