



IT-150DA

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

- Automotive Radar application
- Excellent electrical performance
- Lower Dk (<3.7 @ 10GHz) and low Df (<0.007 @ 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	2.5-3.5	lb/inch
Volume Resistivity	2.5.17.1	> 10 ¹⁰	MΩ-cm
Surface Resistivity	2.5.17.1	> 10 ¹⁰	MΩ
Moisture Absorption, maximum	2.6.2.1	0.10	%
Permittivity (Dk, 50% resin content) A. 1GHz B. 2GHz C. 5GHz D. 10GHz	2.5.5.13	3.73 3.71 3.69 3.64	--
Loss Tangent (Df, 50% resin content) A. 1GHz B. 2GHz C. 5GHz D. 10GHz	2.5.5.13	0.0052 0.0053 0.0057 0.0065	--
Flexural Strength, minimum A. Length direction B. Cross direction	2.4.4	430-460 390-410	N/mm ²
Thermal Stress 10 s at 288°C A. Unetched B. Etched	2.4.13.1	Pass Pass	Rating
Flammability	UL94	N/A	Rating
Glass Transition Temperature(DSC)	2.4.25	180	°C
Decomposition Temperature	2.4.24.6	370	°C
X/Y Axis CTE (40°C to 125°C)	2.4.24	12/14	ppm/°C
Z-Axis CTE A. Alpha 1 B. Alpha 2 C. 50 to 260 Degrees C	2.4.24	45 250 2.6	ppm/°C ppm/°C %
Thermal Resistance A. T260 B. T288	2.4.24.1	>60 >30	Minutes Minutes