



IT-8350B

High Tg / Low Dk / Ultra Low Loss / Halogen Free RF Microwave Product

- 5G Base Stations and mmWave Applications, Power Amplifiers, Antenna Applications
- Automotive Radar, LNB's for Direct Broadcast Satellites

Laminate properties

Items	IPC TM-650	Typical Value	Unit
Peel Strength A. Low profile copper foil (35 μm)	2.4.8	3.0	lb/inch
Volume Resistivity	2.5.17.1	10 ¹⁰	MΩ-cm
Surface Resistivity	2.5.17.1	10 ⁹	MΩ
Moisture Absorption	2.6.2.1	0.12	%
Permittivity (Dk) A. 2 GHz B. 5 GHz C. 10 GHz	TM-mode, CDR C-24/23/50	3.49 3.49 3.49	--
Loss Tangent (Df) A. 2 GHz B. 5 GHz C. 10 GHz	TM-mode, CDR C-24/23/50	0.0025 0.0025 0.0025	--
Flexural Strength (30 mil) A. Length direction B. Cross direction	2.4.4	250-270 250-270	N/mm ²
Thermal Stress 10 sec at 288°C A. Unetched B. Etched	2.4.13.1	Pass Visual Pass Visual	Rating
Flammability	UL94	V-0	Rating
Glass Transition Temperature(DMA)	2.4.25	170	°C
Decomposition Temperature (5wt%)	2.4.24.6	400	°C
X/Y Axis CTE (-40°C to 150°C)	2.4.41	11/12	ppm/°C
Z-Axis CTE A. Alpha 1 B. Alpha 2 C. 50 to 260 Degrees C	2.4.24	60 180 2.3	ppm/°C ppm/°C %
Thermal Resistance A. T288 B. T300	2.4.24.1	> 60 > 60	Minutes Minutes

*The sample thickness : 0.762 mm

Note: The above data is typical values and not guaranteed values.

The data presented above relates to the perpendicular dielectric parameters of the substrates. Resonators with



different diameters have been used for the measurements of the disk samples.