

ITEQ
Your Partner of Advanced Materials & Mass Lam Service

IT-258GA3TC

Middle Tg / Halogen Free / High Reliability Laminate & Prepreg

- Excellent CAF resistance (1000 Volts) and good through-hole reliability
- High CTI (400-599 Volts) and thermal conductivity (0.70 W/mK)
- Low CTE and high thermal reliability /For automotive ECU, HDI, and heavy copper applications

Laminate properties

Items	IPC TM-650	Typical Value	Unit
Peel Strength, minimum A. Low profile copper foil B. Standard profile copper foil	2.4.8	 5 8	lb/inch
Volume Resistivity	2.5.17.1	$1x10^9$	MΩ-cm
Surface Resistivity	2.5.17.1	$1x10^8$	MΩ
Moisture Absorption, maximum	2.6.2.1	0.12	%
Permittivity (Dk, 50% resin content) A. 1GHz B. 2GHz C. 5GHz D. 10GHz	2.5.5.13	 4.4 4.4 4.4 4.3	--
Loss Tangent (Df, 50% resin content) A. 1GHz B. 2GHz C. 5GHz D. 10GHz	2.5.5.13	 0.014 0.014 0.015 0.016	--
Flexural Strength, minimum A. Length direction B. Cross direction	2.4.4	 500-530 440-470	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 1 (400-599)	Class (Volts)
Maximum Operating Temperature(MOT)	UL 746B	130	˚C
Glass Transition Temperature(DSC)	2.4.25	155	˚C
Decomposition Temperature	2.4.24.6	385	˚C
X/Y Axis CTE (40℃ to 125℃)	2.4.41	11-13 / 13-15	ppm/˚C
Z-Axis CTE A. Alpha 1 B. Alpha 2 C. 50 to 260 Degrees C	2.4.24	 35 210 2.8	 ppm/˚C ppm/˚C %
Thermal Resistance A. T260 B. T288	2.4.24.1	 >60 >60	Minutes