



S7045GH

Halogen-free, High Reliability & Mid Loss Material

FEATURES

- High Tg, 180°C (DSC)
- Low Dk/Df (10GHz, IPC-TM-650 2.5.5.5) 3.95/0.0095
- Lower Z-axis CTE

APPLICATIONS

Server, Switch, Base station
Line cards, etc

GENERAL PROPERTIES

Test Items	Test Method	Test Condition	Unit	Typical Value
Tg	IPC-TM-650 2.4.24.4	DMA	°C	190
	IPC-TM-650 2.4.25D	DSC		180
Td	IPC-TM-650 2.4.24.6	5% Wt. loss	°C	415
T288	IPC-TM-650 2.4.24.1	TMA	min	≥60
T300	IPC-TM-650 2.4.24.1	TMA	min	≥60
Thermal Stress	IPC-TM-650 2.4.13.1	288°C, solder dip	-	pass
CTE (Z-axis)	IPC-TM-650 2.4.24	Before Tg	ppm/°C	35
	IPC-TM-650 2.4.24	After Tg	ppm/°C	245
	IPC-TM-650 2.4.24	50-260°C	%	2.3
Dielectric Constant	IPC-TM-650 2.5.5.9	1GHz	-	4.15
	IPC-TM-650 2.5.5.5	10GHz	-	3.95
Dissipation Factor	IPC-TM-650 2.5.5.9	1GHz	-	0.0080
	IPC-TM-650 2.5.5.5	10GHz	-	0.0095
Volume Resistivity	IPC-TM-650 2.5.17.1	C-96/35/90	MΩ/cm	2.0×10 ⁷
Surface Resistivity	IPC-TM-650 2.5.17.1	C-96/35/90	MΩ	4.0×10 ⁷
Dielectric Breakdown	IPC-TM-650 2.5.6	D-48/50+D-0.5/23	kV	> 45
Peel Strength (1 Oz)	IPC-TM-650 2.4.8	288°C/10s	N/mm	1.0
Water Absorption	IPC-TM-650 2.6.2.1	D-24/23	%	0.12
Flammability	UL94	C-48/23/50	Rating	V-0 (HF)

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.