



S7040G

Halogen free, High reliability & Mid Loss Material

FEATURES

- High Tg and high Td
- Halogen free material
- Excellent thermal reliability
- Excellent anti-CAF performance
- Low Dk/Df (@10GHz): 3.72/0.0089
- Lower Z-axis CTE, offering superior PTH reliability

APPLICATIONS

Server, Switch, Base station
Backplane, Line cards
High performance computing
Office Routers

GENERAL PROPERTIES

Test Items		Test Method	Test Condition	Unit	Typical Value
Tg		IPC-TM-650 2.4.24.4	DMA	°C	185
		IPC-TM-650 2.4.25D	DSC		175
Td		IPC-TM-650 2.4.24.6	TGA(5% W.L)	°C	405
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	45
		IPC-TM-650 2.4.24	After Tg	ppm/°C	245
		IPC-TM-650 2.4.24	50-260°C	%	2.5
Permittivity	1GHz	IPC-TM-650 2.5.5.9	C-24/23/50	-	3.90
	10GHz	IPC-TM-650 2.5.5.5	C-24/23/50	-	3.72
	10GHz	IEC61189-2-721	C-24/23/50	-	4.06
Loss Tangent	1GHz	IPC-TM-650 2.5.5.9	C-24/23/50	-	0.0070
	10GHz	IPC-TM-650 2.5.5.5	C-24/23/50	-	0.0089
	10GHz	IEC61189-2-721	C-24/23/50	-	0.0100
Volume Resistivity		IPC-TM-650 2.5.17.1	C-96/35/90	MΩ-cm	7.0×10^7
Surface Resistivity		IPC-TM-650 2.5.17.1	C-96/35/90	MΩ	9.0×10^7
Dielectric Breakdown		IPC-TM-650 2.5.6	D-48/50+D-0.5/23	kV	>45
Peel Strength (1oz)		IPC-TM-650 2.4.8	288°C/10s	N/mm [lb/in]	0.85 [4.86]
Water Absorption		IPC-TM-650 2.6.2.1	D-24/23	%	0.12
Flammability		UL94	C-48/23/50	Rating	V-0

Remarks : 1. All the typical value is based on the 0.76mm (6*2116) specimen, but not guarantee data.

2. All the typical value listed e is for your reference only, please turn to Shengyi Technology Co., Ltd. for detailed information, and all rights from above this data sheet are reserved by Shengyi Technology Co., Ltd.