SHENGYI TECHNOLOGY

S7045GB

FEATURES

- Lead-free compatible.
- High Tg Halogen-free, Tg 180°C (DMA)
- UV Blocking/AOI compatible.
- Lower Z-axis CTE.

APPLICATIONS

- Servers, Telecom, Base station Backplane, Line cards
- High performance computing Office Routers and etc.

PRODUCT CONTACTS

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GENERAL PROPERTIES

TEST ITEMS		TREATMENT CONDITION	UNIT	PROPERTY DATA	
				SPEC	TYPICAL VALUE
Tg		DMA	°C	≥170	180
Flammability		C-48/23/50,E-24/125	Rating	V-0	V-0
		E-24/125+des			
Volume Resistivity		After moisture resistance	MΩ-cm	$\geq 10^6$	5.65 X 10^7
		E-24/125		$\geq 10^3$	2.71 X 10^7
Surface Resistivity		After moisture resistance	MΩ	$\geq 10^4$	5.99 X 10^6
		E-24/125		$\geq 10^3$	4.44 X 10^6
Arc Resistance		D-48/50+D-0.5/23	S	≥60	180
Dielectric Breakdown		D-48/50+D-0.5/23	KV	≥40	45+KV NB
Dielectric Constant RC 52%		IPC-TM-650 2.5.5.9(1GHz)	-	≤5.4	4.4
		IPC-TM-650 2.5.5.5(3GHz)	-		4.5
		IPC-TM-650 2.5.5.5(5GHz)			4.5
Dissipation Factor RC 52%		IPC-TM-650 2.5.5.9(1GHz)		≤0.035	0.010
		IPC-TM-650 2.5.5.5(3GHz)	-		0.014
		IPC-TM-650 2.5.5.5(5GHz)	-		0.015
Thermal Stress	Unetched	288°C, solder dip	-	>10s No Delamination	Pass
	Etched				
Peel Strength	1oz Cu.Foil RTF Type	288°C/10s	N/mm	≥0.70	1.0
		125°C		≥0.70	1.0
Flexural Strength	LW	A	Mpa	≥415	550
	CW			≥345	450
Water Absorption		D-24/23	%	≤0.5	0.12
CTE Z-axis	Before Tg	TMA	PPM/°C	≤60	45
	After Tg	TMA	PPM/°C	≤300	210
	50-260°C	TMA	%	≤3.5	2.3
Td		10°C/min, N_2, 5%Wt Loss	°C	≥325	390
T288		TMA	min	≥5	60
T260		TMA	min	≥30	60

Remarks:
1. Specification sheet:IPC-4101/128, is for your reference only.
2. All the typical value is based on the 1.6mm specimen,while the Tg is for specimen >0.50mm.
3. All the typical value listed above is for your reference only, please turn to Shengyi Technology Co., Ltd. for detailed information, and all rights from this datasheet are reserved by Shengyi Technology Co., Ltd.

Explanations: C = Humidity conditioning; D = Immersion conditioning in distilled water; E = Temperature conditioning.

The figures following the letter symbols indicate with the first digit the duration of the preconditioning in hours, with the second digit the preconditioning temperature in °C and with the third digit the relative humidity.