



S1600

(UL ANSI: FR-4.0) High CTI

FEATURES

- High CTI
- UV Blocking
- Good mechanical process ability
- Not recommended for solder mask rework

APPLICATIONS

PDP, LCD, TV, Refrigerator
 Power supplier, Washing machine
 For applications with CAF requirements, recommend customer to carry a systematic assessment of its reliability.

GENERAL PROPERTIES

Test Items	Test Method	Test Condition	Unit	Typical Value
Tg	IPC-TM-650 2.4.25D	DSC	°C	135
Td	IPC-TM-650 2.4.24.6	TGA (5% W.L)	°C	310
T288	IPC-TM-650 2.4.24.1	TMA	min	2
T260	IPC-TM-650 2.4.24.1	TMA	min	15
Thermal Stress	IPC-TM-650 2.4.13.1	288°C, solder dip	s	>100
CTE (Z-axis)	IPC-TM-650 2.4.24	Before Tg	ppm/°C	55
	IPC-TM-650 2.4.24	After Tg	ppm/°C	308
	IPC-TM-650 2.4.24	50-260°C	%	4.5
Permittivity (1GHz)	IPC-TM-650 2.5.5.9	C-24/23/50	-	4.5
Loss Tangent (1GHz)	IPC-TM-650 2.5.5.9	C-24/23/50	-	0.017
Volume Resistivity	IPC-TM-650 2.5.17.1	C-96/35/90	MΩ-cm	5.0×10 ⁸
Surface Resistivity	IPC-TM-650 2.5.17.1	C-96/35/90	MΩ	5.0×10 ⁷
Arc Resistance	IPC-TM-650 2.5.1	D-48/50+D-0.5/23	s	126
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]	1.8 [10.28]
Flexural Strength (LW/CW)	IPC-TM-650 2.4.4	A	MPa	550/450
Water Absorption	IPC-TM-650 2.6.2.1	D-24/23	%	0.10
Flammability	UL94	C-48/23/50	Rating	V-0
CTI	IEC60112	A	Rating	PLC 0 (≥600V)

- Remarks: 1. Specification sheet: IPC-4101/21, is for your reference only.
 2. All the typical value is based on the 1.6mm (8*7628) specimen.
 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 data sheet are reserved by Shengyi Technology Co., Ltd.

PURCHASING INFORMATION

Thickness	Copper foil	Standard size
0.8mm to 3.2mm	12um to 70 um	1,020mm ×1,220mm(40"×48") 915mm ×1,220mm (36"×48") 1,070mm ×1,220mm(42"×48")

Remarks: Other sheet size and thickness could be available upon request.