

S1600

(ULANSI:FR-4.0) High CTI

特点

- 优异的耐漏电起痕性, CTI≥600V。
- UV Blocking 。
- 优良的PCB加工性
- 不适合翻洗绿油(阻焊油墨)

FEATURES

- Excellent tracking resistance, CTI≥600V.
- UV Blocking.
- Good PCB processability.
- Not recommended for solder mask rework.

应用领域

等离子显示屏、液晶显示屏、电源基板、 电视机、电冰箱、洗衣机等。 不适用于有CAF要求的应用。

APPLICATIONS

PDP,LCD, power base board, TV, refrigerator, washing machine, and etc. Not suitable for Anti-CAF application.

GENERAL PROPERTIES

Test Item		Treatment Condition	11m:4	Property Data	
			Unit	SPEC	Typical Value
Tg		DSC	$^{\circ}\mathbb{C}$	≥125	135
Flammability		C-48/23/50		V-0	V-0
		E-24/125	-		
Volume Resistivity		After moisture resistance	MΩ-cm	≥ 10 ⁶	5.0×10 ⁸
		E-24/125	IVI 22 - CTTT	≥ 10 ³	5.0×10 ⁶
Surface Resistivity		After moisture resistance	ΜΩ	≥ 10⁴	5.0×10 ⁷
		E-24/125	IVI 22	≥ 10 ³	5.0×10 ⁶
Arc Res	sistance	D-48/50+D-0.5/23	S	≥60	126
Dielectric E	Breakdown	D-48/50+D-0.5/23	KV	≥ 40	60
Dielectric Constant (1MHz)		C-24/23/50	-	≤ 5.4	4.7
Dissipation Factor (1MHz)		C-24/23/50	-	≤ 0.035	0.016
Thermal	Unetched	288℃,solder dip	-	>10s	60s
Stress	Etched	200 C, solder dip		No delamination	No delamination
Peel	1oz	288℃,10s	N/mm	≥ 1.05	1.8
Strength	Cu. Foil	125 ℃	IN/IIIIII	≥ 0.70	1.6
Flexural	LW	А	M Pa	≥ 415	550
Strength	CW	A	WII a	≥ 345	450
Water Absorption		D-24/23	%	≤ 0.80	0.10
CTI		IEC60112 Method	V	PLC 0(≥600V)	PLC 0
CTE	Before Tg	TMA	PPM/℃	-	55
z-axis	After Tg		PPM/℃	-	308
Td		10℃/min,N₂,5%Wt Loss	°C	-	310

 $\label{eq:Remarks: 1.Specification sheet: IPC-4101/21, is for your reference only.} \\ 2. \text{All the typical value is based on the 1.6mm specimen, while the Tg is for specimen} \geqslant 0.50 \text{mm}.$

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.

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

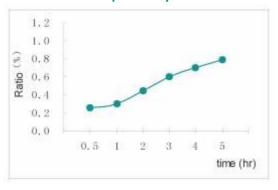
The figures following the letter symbols indicate with the first digit the duration of the preconditioning in hours, with the second digit the preconditioning temperature in °C and with the third digit the relative humidity.



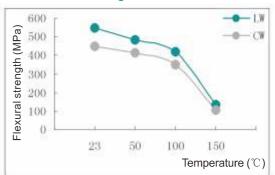
S1600

(ULANSI:FR-4.0) High CTI

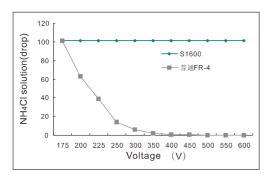
Water absorption at pressure cooker



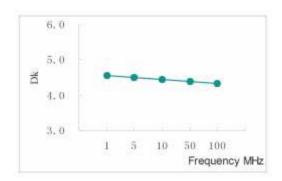
Flexural strength



■ The CTI difference between S1600 and standard FR-4



■ Dielectric constant



PURCHASING INFORMATION

Thickness	Copper foil	Standard Size		
0.8mm to 3.2mm	12 μ m to 105 μ m	1,020 \times 1,220mm (40 $^{\prime\prime}$ \times 48 $^{\prime\prime}$) 1,070 \times 1,220mm (42 $^{\prime\prime}$ \times 48 $^{\prime\prime}$)	915×1,220mm (36" ×48")	

Make the control of t