

S1000-2

(ULANSI:FR-4) Low CTE / Hi-Tg / Excellent Thermal Resistance

特点

- 无铅兼容FR-4板材.
- 高Tg170℃(DSC), UV Blocking和AOI兼容。
- 高耐热性
- 较低Z-CTE值。 优异的通孔可靠性

此 优异的Anti-CAF性能。 低吸水率。 FEATURES

- Lead-free compatible FR-4 laminate.
- Tg 170°C (DSC), UV Blocking / AOI compatible.
- High heat resistance.
- Lower Z-axis CTE.
- Excellent through-hole reliability.
- Excellent anti-CAF performance.
- Low water absorption.

应用领域

适合于厚铜、厚径比较大结构的高多层印制线 路板,广泛应用于计算机与通讯设备,工业控 制用高档仪器仪表、路由器等。

APPLICATIONS

Suitable for high aspect ratio and high-layer PCB. Widely used in computer, communication equipment, precise apparatus and instrument, router, and etc.

GENERAL PROPERTIES

Test Item		Treatment Condition	Unit	Property Data	
				SPEC	Typical Value
Tg		DSC	$^{\circ}$	≥170	180
Flammability		C-48/23/50	Rating	V-0	V-0
		E-24/125+des			
Volume Resistivity		After moisture resistance	MΩ-cm	≥ 10 ⁶	2.2×10 ⁸
		E-24/125		≥ 10 ³	4.5×10 ⁶
Surface Resistivity		After moisture resistance	$M\Omega$	≥ 10⁴	7.9×10^{7}
		E-24/125		≥ 10 ³	1.7×10 ⁶
Arc Resistance		D-48/50+D-0.5/23	S	≥ 60	100
Dielectric Breakdown		D-48/50+D-0.5/23	KV	≥ 40	63
Dielectric Constant (1MHz)		C-24/23/50	-	≤ 5.4	4.8
Dissipation Factor (1MHz)		C-24/23/50	-	≤ 0.035	0.013
Thermal Stress	Unetched	288℃, solder dip	-	>10s	100s
	Etched			No delamination	No delamination
Peel	1oz	288℃,10s	NI /ma ma	≥ 1.05	1.38
Strength	Cu. Foil	125 ℃	N/mm	≥ 0.70	1.07
Flexural Strength	LW	A	MPa	≥ 415	562
	CW			≥ 345	518
Water Absorption		D-24/23	%	≤ 0.5	0.10
CTE Z-axis	Before Tg	TMA	PPM/℃	≪60	45
	After Tg	TMA	PPM/℃	≤300	220
	50~260℃	TMA	%	≤3.0	2.8
Td		10℃/min,N₂,5%Wt Loss	$^{\circ}$ C	≥340	345
T288		TMA	min	≥15	20
T260		TMA	min	≥30	60
T300		TMA	min	≥2	5
CTI		IEC60112 Method	V	PLC 3(175V249V)	PLC 3

Remarks: 1.Specification sheet:IPC-4101/126, 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 Sci. Tech. Co., Ltd. for detailed information, and all rights from this data sheet are reserved by Shengyi Sci.Tech.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.