S1000

(UL ANSI:FR-4)Low Z-CTE

特点

- 无铅兼容FR-4板材。
- Tg(DSC)155℃,UV Blocking 和 AOI兼容。
- 优良的耐热性。
- 比普通FR-4降低约30～35%的Z轴热膨胀系数。
- 优良的通孔可靠性。
- 优异的耐CAF性和Q1000性能。
- 低吸水率。

应用领域

电脑、仪器仪表、摄像机、通讯设备、汽车、电子游戏机等。

FEATURES

- Lead-free compatible FR-4 Laminate.
- Tg(DSC)155℃,UV Blocking/ AOI compatible.
- Excellent thermal reliability.
- Z-CTE 30~35% less than conventional FR-4.
- Excellent T/H reliability.
- Excellent anti-CAF and Q1000 performance.
- Low water absorption.

APPLICATIONS

Computer, Instrumentation, VCR, communication equipment, automotive electronics, electronic game machine, and etc.

GENERAL PROPERTIES

Test Item		Treatment Condition	Unit	Property Data	
				SPEC	Typical Value
Tg		DSC	℃	≥150	155
Flammability		C-48/23/50	Rating	V-0	V-0
		E-24/125			
Volume Resistivity		After moisture resistance	MΩ-cm	$\geq 10^6$	7.4×10^8
		E-24/125		$\geq 10^3$	5.6×10^6
Surface Resistivity		After moisture resistance	MΩ	$\geq 10^4$	7.6×10^7
		E-24/125		$\geq 10^3$	2.8×10^6
Arc Resistance		D-48/50+D-0.5/23	S	≥60	147
Dielectric Breakdown		D-48/50+D-0.5/23	KV	≥ 40	45
Dielectric Constant (1MHz)		C-24/23/50	-	≤ 5.4	4.9
Dissipation Factor (1MHz)		C-24/23/50	-	≤ 0.035	0.011
Thermal Stress	Unetched	288℃,solder dip	-	>10s No delamination	100s No delamination
	Etched				
Peel Strength	1oz Cu. Foil	288℃,10s	N/mm	≥1.05	1.4
		125℃		≥ 0.70	1.2
Flexural Strength	LW	A	MPa	≥ 415	540
	CW			≥ 345	450
Water Absorption		D-24/23	%	≤ 0.5	0.09
CTE	Before Tg	TMA	PPM/℃	≤60	49
	After Tg	TMA	PPM/℃	≤300	250
Z-axis	50~260℃	TMA	%	≤3.5	3.4
Td		10℃/min,N_2	℃	≥325	335
T288		TMA	min	≥5	10
T260		TMA	min	≥30	60
CTI		IEC60112	V	PLC 3(175V--249V)	PLC 3

Remarks: 1.Specification sheet:IPC-4101/99, 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 ℃ and with the third digit the relative humidity.