

Halogen-free& High CTI & Low Z-axis CTE
NY3170HC/NY3170HCP

特点 FEATURES:

- Tg180℃ 无卤无铅兼容 Tg180℃ Halogen-free and Lead-free Compatible
- 超低Z-CTE值 VeryLow Z-axis CTE
- 优秀的尺寸安定性 Excellent Dimension Stability
- 优秀的耐CAF性能 Excellent Anti-CAF Performance
- 优秀的耐漏电性能CTI≥600V(IEC60112方法) Excellent Tracking Resistance CTI≥600V(IEC60112 Method)

应用领域 APPLICATIONS:

- 汽车电子 Automotive(Infotainment,Safety system for high reliability)
- 电源板 Power Board for Heavy Copper
- 消费电子 Consumer Electronics
- 仪器仪表 Instrumentartions

NY3170HC基板典型性能 Typical Properties for NY3170HC Laminate

属性 Property	项目 Item		测试方法 IPC-TM-650	测试条件 Test Condition	单位 Unit	典型值 Typical Value
热性能 Thermal	玻璃态转换温度 Tg		2.4.25	DSC	℃	180
			2.4.24	TMA	℃	170
			2.4.24.4	DMA	℃	205
	X/Y轴热膨胀系数CTE,X/Y-axis		2.4.24.5	< Tg,TMA	PPM/℃	13\14
	Z轴热膨胀系数 Z-axis		2.4.24	< Tg,TMA	PPM/℃	40
				> Tg,TMA	PPM/℃	210
			2.4.24	50~260℃	%	2.3
	热裂解温度 Td		2.4.24.6	TGA(5%W.L)	℃	380
	耐热性 T288		2.4.24.1	Clad	Min	> 60
				Etched	Min	> 60
电性能 Electrical	介电常数 DK (R/C:55%/70%)	1MHz	2.5.5.9	C-24/23/50	-	4.10\3.90
		1GHz				4.05\3.85
		10GHz	SPDR method			\
	介质损耗 Df (R/C:55%/70%)	1MHz	2.5.5.9	C-24/23/50	-	0.011\0.0128
		1GHz				0.0125\0.0135
		10GHz	SPDR method			\
	体积电阻 Volume Resistivity		2.5.17.1	C-96/35/90	MΩ-cm	1.8×10 ¹⁰
	表面电阻 Surface Resistivity				MΩ	1.1×10 ⁹
	物理性能 Physical	吸水率 Water Absorption		2.6.2.1	E-1/105+D-24/23	%
剥离强度 Peel Strength (HTE)		1oz	2.4.8	As Received	N/mm	0.8
剥离强度 Peel Strength (RTF)		1oz				\
剥离强度 Peel Strength (HVLP)		1oz				\
弯曲强度 Flexural Strength		Warp	2.4.4	As Received	N/mm ²	550
		Fill				450
耐燃性 Flame Resistance		UL-94	A&E-4/125	-	V-0	