

Low CTE& Excellent Thermal Resistance & High-Tg NY2170/NY2170P

特点 FEATURES:

- Tg175°C 无铅兼容 Tg175°C Lead-free Compatible
- 优秀的剥离强度 Excellent Peel Strength
- 低Z-CTE值 Low Z-axis CTE
- 低的吸水率 Low Water Absorption
- 优秀的耐CAF性能 Excellent Anti-CAF Performance
- 优秀的尺寸安定性 Excellent Dimension Stability

应用领域 APPLICATIONS:

- 汽车电子 Automotives
- 服务器 Server
- 通讯 Communications
- 军工产品 Militaries

NY2170基板典型性能 Typical Properties for NY2170 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	°C	175
			2.4.24	TMA	°C	165
			2.4.24.4	DMA	°C	\
	X/Y轴热膨胀系数CTE,X/Y-axis		2.4.24.5	< Tg,TMA	PPM/°C	13\14
	Z轴热膨胀系数 Z-axis		2.4.24	< Tg,TMA	PPM/°C	35
				> Tg,TMA	PPM/°C	235
	热裂解温度 Td		2.4.24.6	TGA(5%W.L)	°C	350
耐热性 T288		2.4.24.1	Clad	Min	45	
			Etched	Min	45	
电性能 Electrical	介电常数 DK (R/C:55%/70%)	1MHz	2.5.5.9	C-24/23/50	-	4.45\4.00
		1GHz				4.40\3.95
		10GHz				SPDR method
	介质损耗 Df (R/C:55%/70%)	1MHz	2.5.5.9	C-24/23/50	-	0.0151\0.0162
		1GHz				0.0162\0.0174
		10GHz				SPDR method
	体积电阻 Volume Resistivity		2.5.17.1	C-96/35/90	MΩ-cm	2.9×10 ⁸
表面电阻 Surface Resistivity		MΩ			2.4×10 ⁷	
吸水率 Water Absorption		2.6.2.1	E-1/105+D-24/23	%	0.1	
物理性能 Physical	剥离强度 Peel Strength (HTE)	1oz	2.4.8	As Received	N/mm	1.42
	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	580
		Fill				460
耐燃性 Flame Resistance		UL-94	A&E-4/125	-	V-0	