

Halogen-free& High-Tg & Low Z-axis CTE

NY-A3HF/NY-A3HFP

特点 FEATURES:

- Tg185°C 无卤无铅兼容 Tg185°C Halogen-free and Lead-free Compatible
- 超低Z-CTE值 Very Low 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

应用领域 APPLICATIONS:

- 汽车电子 Automotive(Infotainment, Safety System for High Reliability)
- 电源板 Power Board for Heavy Copper

NY-A3HF基板典型性能 Typical Properties for NY-A3HF 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	℃	/
			2.4.24	TMA	℃	185
			2.4.24.4	DMA	℃	210
	X/Y轴热膨胀系数CTE,X/Y-axis		2.4.24.5	< Tg, TMA	PPM/℃	11-12
	Z轴热膨胀系数 Z-axis		2.4.24	< Tg, TMA	PPM/℃	30
				> Tg, TMA	PPM/℃	175
			2.4.24	50~260℃	%	1.7
	热裂解温度 Td		2.4.24.6	TGA(5%W.L)	℃	395
	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	-	/
		1GHz				4.4/4.0
		10GHz	SPDR method			4.1/3.7
	介质损耗 Df (R/C:55%/70%)	1MHz	2.5.5.9	C-24/23/50	-	/
		1GHz				0.012/0.014
		10GHz	SPDR method			0.014/0.018
	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	%	0.13
	剥离强度 Peel Strength (HTE)	1oz	2.4.8	As Received	N/mm	1.0
	剥离强度 Peel Strength (RTF)	1oz				0.85
	剥离强度 Peel Strength (HVLP)	1oz				\
	弯曲强度 Flexural Strength	Warp	2.4.4	As Received	N/mm ²	590
		Fill				520
	耐燃性 Flame Resistance		UL-94	A&E-4/125	-	V-0