

Very Low Loss & Halogen-free&Excellent Thermal Resistance

NY-A6HF/NY-A6HFP

特点 FEATURES:

- 低介电常数和低介质损耗 (Low Dk 3.90@10GHz, Low Df 0.0040@10GHz)
- 高TG无卤无铅兼容 High TG Halogen-free and Lead-free compatible
- 较低的Z轴膨胀系数及优异通孔可靠性 Lower Z-CTE offering superior PTH reliability
- 低吸水性 Low Water absorption

应用领域 APPLICATIONS:

- 汽车电子 Automotive
- HDI Sip HDI Sip

NY-A6HF基板典型性能 Typical Properties for NY-A6HF 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	℃	170		
			2.4.24.4	DMA	℃	220		
	X/Y轴热膨胀系数CTE,X/Y-axis (1078x20)		2.4.24.5	< Tg,TMA	PPM/℃	15\17		
	Z轴热膨胀系数 Z-axis Expansion (2116×12)		2.4.24	< Tg,TMA	PPM/℃	40		
				> Tg,TMA	PPM/℃	185		
			2.4.24	50~260℃	%	2.2		
	热裂解温度 Td		2.4.24.6	TGA(5%W.L)	℃	430		
	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					3.60\3.30
			10GHz				SPDR method	3.56\3.26
	介质损耗 Df (R/C:55%/70%)		1MHz	2.5.5.9	C-24/23/50	-	\	
			1GHz					0.0032\0.0029
			10GHz				SPDR method	0.0036\0.0033
	体积电阻 Volume Resistivity			2.5.17.1	C-96/35/90	MΩ-cm	2.0×10 ⁹	
	表面电阻 Surface Resistivity					MΩ	1.0×10 ⁸	
	物理性能 Physical	吸水率 Water Absorption		2.6.2.1	E-1/105+D-24/23	%	0.12	
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				0.6		
剥离强度 Peel Strength (HVLP)		1oz				0.7		
弯曲强度 Flexural Strength		Warp	2.4.4	As Received	N/mm ²	490		
		Fill				449		
耐燃性 Flame Resistance			UL-94	A&E-4/125	-	V-0		