

Extreme Low Loss & Excellent Thermal Resistance
NY-P4/NY-P4P

特点 FEATURES:

- 低介电常数和低介质损耗 (Low Dk 3.2@10GHz, Low Df 0.00115@10GHz)
- 优异的电气和热可靠性 Excellent electrical and thermal reliability properties
- 优异的防潮性和无铅回流焊工艺兼容 Excellent moisture resistance and lead Free reflow process compatible
- 优越的PTH可靠性和耐CAF能力 Superior PTH reliability and anti-CAF capability
- Dk/Df性能稳定平坦, 防潮性能优异 Stable and flat Dk/Df performance and excellent moisture resistance

应用领域 APPLICATIONS:

- 射频 Radio Frequency
- 服务器, 基站 Server, Base Station
- 背板, 高性能计算机 Backplane, High Performance Computer
- 超级核心路由器和交换机 Super Core Router and Switchers

NY-P4基板典型性能 Typical Properties for NY-P4 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 (1078×6)		2.4.25	DSC	℃	\
			2.4.24	TMA	℃	170
			2.4.24.4	DMA	℃	200
	X/Y轴热膨胀系数CTE,X/Y-axis (1078×20)		2.4.24.5	< Tg,TMA	PPM/℃	18\18
	Z轴热膨胀系数 Z-axis Expansion		2.4.24	< Tg,TMA	PPM/℃	50
				> Tg,TMA	PPM/℃	270
			2.4.24	50~260℃	%	3.0
	热裂解温度 Td		2.4.24.6	TGA(5%W.L)	℃	400
	耐热性 T288		2.4.24.1	Clad	Min	> 120
Etched				Min	> 120	
电性能 Electrical	介电常数 DK (R/C:66%)	1MHz	2.5.5.9	C-24/23/50	-	\
		1GHz				
		10GHz	SPDR method			
	介质损耗 Df (R/C:66%)	1MHz	2.5.5.9	C-24/23/50	-	\
		1GHz			-	0.00100
		10GHz	SPDR method		-	0.00115
	体积电阻 Volume Resistivity		2.5.17.1	C-96/35/90	MΩ-cm	2.4×10 ⁹
	表面电阻 Surface Resistivity				MΩ	1.9×10 ⁸
	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	\
剥离强度 Peel Strength (RTF)		1oz				\
剥离强度 Peel Strength (HVLP)		1oz				0.525
弯曲强度 Flexural Strength		Warp	2.4.4	As Received	N/mm ²	200
		Fill				180
耐燃性 Flame Resistance		UL-94	A&E-4/125	-	V-0	