

Ultra Low Loss & Excellent Thermal Resistance
NY-P1/NY-P1P

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无铅兼容 High TG Lead-free compatible
- 低Z轴膨胀系数及优异通孔可靠性 Lower Z-CTE offering superior PTH reliability
- 低吸湿性 Lower moisture absorption

应用领域 APPLICATIONS:

- 射频 Radio Frequency
- 服务器 Server
- 基站 Base Station
- 交换机 Switch

NY-P1基板典型性能 Typical Properties for NY-P1 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	℃	190		
			2.4.24.4	DMA	℃	230		
	X/Y轴热膨胀系数CTE,X/Y-axis (1078×20)		2.4.24.5	< Tg,TMA	PPM/℃	20\21		
	Z轴热膨胀系数 Z-axis Expansion (2116×12)		2.4.24	< Tg,TMA	PPM/℃	45		
				> Tg,TMA	PPM/℃	270		
			2.4.24	50~260℃	%	2.5		
	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:55%/70%)		1MHz	2.5.5.9	C-24/23/50	-	\	
			1GHz					3.60\3.30
			10GHz				SPDR method	3.90\3.50
	介质损耗 Df (R/C:55%/70%)		1MHz	2.5.5.9	C-24/23/50	-	\	
			1GHz					0.0022\0.0019
			10GHz				SPDR method	0.0040\0.0033
	体积电阻 Volume Resistivity			2.5.17.1	C-96/35/90	MΩ-cm	2.2×10 ⁹	
	表面电阻 Surface Resistivity					MΩ	1.8×10 ⁸	
	物理性能 Physical	吸水率 Water Absorption (2116×1)		2.6.2.1	E-1/105+D-24/23	%	0.10	
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				0.7		
弯曲强度 Flexural Strength		Warp	2.4.4	As Received	N/mm ²	475		
		Fill				439		
耐燃性 Flame Resistance			UL-94	A&E-4/125	-	V-0		