



Low Loss / Low CTE / Halogen Free

EM-526 / EM-526B

- Low Df, excellent electrical performance
- Low CTE for X / Y / Z -axis direction
- For high speed sever, network and telecom application
- For HDI, MEMS, SiP, eMMC Application

Basic Laminate Property

Property	Item		IPC-TM-650	Test Condition	Unit	Typical Value
Thermal	Tg		2.4.25	DSC	°C	N/A
			2.4.24	TMA	°C	230
			2.4.24.4	DMA	°C	260
	CTE, X/Y-axis		2.4.24.5	< Tg, TMA	ppm/°C	9/10
	CTE, Z-axis		2.4.24	< Tg, TMA	ppm/°C	25~30
				> Tg, TMA	ppm/°C	N/A
	Z-axis Expansion		2.4.24	50~260°C	%	1.3
	Td		2.4.24.6	TGA (5% W.L)	°C	430
T288		2.4.24.1	Clad	Min	>60	
			Etched	Min	>60	
Electrical	Dk (R/C: 50/70%)	1 GHz	2.5.5.9	C-24/23/50	-	4.0/3.5
		10GHz	Cavity Resonator		-	3.9/3.4
	Df (R/C: 50/70%)	1 GHz	2.5.5.9	C-24/23/50	-	0.0052/0.0057
		10GHz	Cavity Resonator		-	0.0070/0.0076
	Volume Resistivity		2.5.17.1	C-96/35/90	MΩ-cm	>10 ¹⁰
Surface Resistivity		2.5.17.1	C-96/35/90	MΩ	>10 ⁹	
Physical	Water Absorption		2.6.2.1	E-1/105+D-24/23	%	0.12
	Peel Strength (RTF)	0.5 oz	2.4.8	As Received	lb/in	5.5
	Peel Strength (HVLV)	0.5 oz	2.4.8	As Received	lb/in	4.4
	Flexural Modulus	Warp	2.4.4	As Received	GPa	24-26
		Fill		As Received	GPa	23-25
Flame Resistance		UL-94	A & E-24/125	-	V-0	