



## 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	120~140	
	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
		10GHz	SPC method		-	3.9/3.4
	Df (R/C: 50/70%)	1 GHz	2.5.5.9	C-24/23/50	-	0.005/0.006
		10GHz	Cavity Resonator		-	0.007/0.008
		10GHz	SPC method		-	0.007/0.007
	Volume Resistivity		2.5.17.1	C-96/35/90	MΩ-cm	>10 <sup>10</sup>
Surface Resistivity		2.5.17.1	C-96/35/90	MΩ	>10 <sup>9</sup>	
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 (HVLP)	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

Above typical values are tested under specified constructions and not intended for specification.