



High Speed / Low Loss & Green EM-888K / EM-888BK

- Low Dk/Df and excellent electrical performance
- Low moisture absorption
- Excellent CAF resistance
- Halogen, antimony and red phosphorus free
- For high speed sever, network and telecom application

Basic Laminate Property

Item	IPC-TM-650	Test Condition	Unit	Typical Value	
Glass Transition Temp	2.4.24.3	TMA	°C	170	
	2.4.24.2	DMA	°C	210	
CTE, X-, Y-axis	2.4.24	Pre-Tg, TMA	ppm/°C	12/15	
CTE, Z-axis	2.4.24	Alpha 1, TMA	ppm/°C	55*	
		Alpha 2, TMA	ppm/°C	210*	
Z-axis Expansion	2.4.24	50~260°C, TMA	%	2.6*	
Decomposition Temp	2.4.24.6	TGA	°C	380	
Thermal Stress 10sec 288°C	2.4.13.1	Clad	—	Pass Visual	
		Etched	—	Pass Visual	
Water Absorption	2.6.2.1	E-1/105 + D-24/23	%	0.05	
Peel Strength (VLP)	0.5oz	2.4.8	As Received	lb/in	4.8
Peel Strength (HVLP)	0.5oz	2.4.8	As Received	lb/in	4.1
Permittivity (RC 50%)	1GHz	2.5.5.9	C-24/23/50	—	3.3
	10GHz	Cavity Resonator		—	3.2
Loss Tangent (RC 50%)	1GHz	2.5.5.9	C-24/23/50	—	0.005
	10GHz	Cavity Resonator		—	0.006
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	
Flame Resistance	UL-94	A&E-24/125	—	V-0	

Note: * means that sample thickness is 30mil (2116X6).