



## High Tg / Low Loss / Halogen Free

### EM-888(S) / EM-888B(S)

- Low Dk and Df, excellent electrical performance
- Lower CTE 2.4% (50~260°C)
- Excellent CAF resistance
- Halogen, antimony and red phosphorus free
- For high speed sever, network and telecom 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	170
			2.4.24.4	DMA	°C	210
	CTE, X/Y-axis		2.4.24.5	< Tg, TMA	ppm/°C	12/15
	CTE, Z-axis		2.4.24	< Tg, TMA	ppm/°C	40~45
				> Tg, TMA	ppm/°C	220~240
	Z-axis Expansion		2.4.24	50~260°C	%	2.4
	Td		2.4.24.6	TGA (5% W.L)	°C	390
T288		2.4.24.1	Clad	Min	>60	
Electrical	Dk (R/C: 50%)	1 GHz	2.5.5.9	C-24/23/50	-	3.8
		10 GHz	Cavity Resonator		-	3.7
	Df (R/C: 50%)	1 GHz	2.5.5.9	C-24/23/50	-	0.0055
		10 GHz	Cavity Resonator		-	0.0073
	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	%	0.1
	Peel Strength (HTE)	0.5 oz	2.4.8	As Received	lb/in	6.3
	Peel Strength (VLP)	0.5 oz	2.4.8	As Received	lb/in	4.8
	Flexural Strength	Warp	2.4.4	As Received	MPa	510~570
		Fill		As Received	MPa	450~500
Flame Resistance		UL-94	A & E-24/125	-	V-0	