

# EM-888 / EM-888B

## High Tg / Low Loss / Halogen Free

- Applications include: high-speed server, network and telecom.
- Designed for excellent CAF resistance.
- RoHS Compliant
- UL File: E150504
- Applicable IPC Slash Sheets: IPC-4101 /127, /128, /130; IPC-4103 /240, /540

### Basic Laminate Property

Property	Item		Typical Value	Unit	Test Condition	IPC-TM-650	
Thermal	Tg		N/A	°C	DSC	2.4.25	
			170	°C	TMA	2.4.24	
			210	°C	DMA	2.4.24.4	
		CTE, X/Y-axis		12/15	ppm/°C	< Tg, TMA	2.4.24.5
		CTE, Z-axis		40~45	ppm/°C	< Tg, TMA	2.4.24
				220~240	ppm/°C	> Tg, TMA	
		Z-axis Expansion		2.6	%	50~260°C	2.4.24
		Td		390	°C	TGA (5% W.L)	2.4.24.6
		T288		>60	min.	Clad	2.4.24.1
	Thermal Conductivity		0.50	W/m.K	-	ASTM D5470	
Electrical	Dk (R/C: 50%)	1 GHz	3.8	-	C-24/23/50	2.5.5.9	
		10 GHz	3.7	-		Cavity Resonator	
	Df (R/C: 50%)	1 GHz	0.0055	-	C-24/23/50	2.5.5.9	
		10 GHz	0.0073	-		Cavity Resonator	
		Volume Resistivity		>10 <sup>10</sup>	MΩ-cm	C-96/35/90	2.5.17.1
	Surface Resistivity		>10 <sup>9</sup>	MΩ	C-96/35/90	2.5.17.1	
Physical	Water Absorption		0.1	%	E-1/105+D-24/23	2.6.2.1	
	Peel Strength	HTE, H oz	6.3	lb/in	As Received	2.4.8	
		VLP, H oz	4.8	lb/in	As Received	2.4.8	
	Flexural Strength	Warp	510~570	MPa	As Received	2.4.4	
		Fill	450~500	MPa			
	Flame Resistance		V-0	-	A & E-24/125	UL-94	

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