EM-526 / EM-526B
Low Loss / Low CTE / Halogen Free

- Applications include: mobile device, high-speed server, network and telecom.
- Low Df for excellent electrical performance.
- Low CTE for X/ Y/ Z-axis direction.
- For high reliability applications.
- RoHS Compliant
- UL File: E150504
- Applicable IPC Slash Sheets: 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
			230	°C	TMA	2.4.24
			260	°C	DMA	2.4.24.4
	CTE, X/Y-axis		9/10	ppm/ °C	< Tg, TMA	2.4.24.5
	CTE, Z-axis		25~30	ppm/ °C	< Tg, TMA	2.4.24
			120~140	ppm/ °C	> Tg, TMA	
	Z-axis Expansion		1.3	%	50~260°C	2.4.24
	Td		430	°C	TGA (5% W.L)	2.4.24.6
	T288		>60	min.	Clad	2.4.24.1
			>60	min.	Etched	
	Thermal Conductivity		0.60	W/m.K	-	0.60
Electrical	Dk (R/C: 50/70%)	1 GHz	4.0/3.5	-	C-24/23/50	2.5.5.9
		10 GHz	3.9/3.4	-		Cavity Resonator
		10 GHz	3.9/3.4	-		SPC method
	Df (R/C: 50/70%)	1 GHz	0.005/0.006	-	C-24/23/50	2.5.5.9
		10 GHz	0.007/0.008	-		Cavity Resonator
		10 GHz	0.007/0.007	-		SPC method
	Volume Resistivity		$>10^{10}$	MΩ-cm	C-96/35/90	2.5.17.1
	Surface Resistivity		$>10^{9}$	MΩ	C-96/35/90	2.5.17.1
Physical	Water Absorption		0.12	%	E-1/105+D-24/23	2.6.2.1
	Peel Strength	RTF, H oz	5.5	lb/in	As Received	2.4.8
		HVLP, H oz	4.4	lb/in	As Received	
	Flexural Modulus	Warp	24~26	GPa	As Received	2.4.4
		Fill	23~25	GPa	As Received	
	Flame Resistance		V-0	-	A & E-24/125	UL-94

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