

EM-A70K

Radio Frequency / Ultra-low Loss / Halogen Free

- Applications Include: Base Station and Satellite Antenna, Automotive Radar
- Glass-Reinforced with Excellent Stability over Frequency and Temperature
- Ultra-Low Transmission Loss Performance
- RoHS Compliant
- UL File: E150504

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
			200	°C	DMA	2.4.24.4
	CTE, Z-axis		35~40	ppm/°C	< Tg, TMA	2.4.24
			140~160	ppm/°C	> Tg, TMA	
	Z-axis Expansion		1.8	%	50~260°C	2.4.24
	Td		360	°C	TGA (5% W.L)	2.4.24.6
	T288		>60	Min	Clad	2.4.24.1
			>60	Min	Etched	
Thermal Conductivity		0.45	W/m.K	-	ASTM D5470	
Electrical	Dk (5mil)	10 GHz	3.1	-	C-24/23/50	2.5.5.13
	Df (5mil)	10 GHz	0.0018			2.5.5.13
Physical	Water Absorption		0.13	%	E-1/105+D-24/23	2.6.2.1
	Peel Strength	HVLP 1 oz	5.0	lb/in	As Received	2.4.8
		HVLP2 H oz	4.0			
Flame Resistance		V-0	-	A & E-24/125	UL-94	

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