

AEROWAVE 300

PROPERTY	Typical Value	Direction	Units	Condition	Test Method
Dielectric Constant (Process Dk)	3.0±0.05	Z	-	10GHz/23	IPC-TM-650 2.5.5.5 Clamped Stripline
Dielectric Constant (Design Dk)	2.98	Z	-	1.5 GHz -6GHz/23	Differential Phase Length Method
Dissipation Factor, Df	0.0031	Z	-	10GHz/23	IPC-TM-650 2.5.5.5 Clamped Stripline
Thermal Coefficient of Dk	50	Z	-	-40~+120	IEC 61189-2-721 (10GHz)
Tg	200	-		DMA	IPC-TM-650 2.4.24.4
Td	400	-		TGA	ASTM D3850
Coefficient of Thermal Expansion	15 15 50	X Y Z	ppm/	TMA	IPC-TM-650 2.4.41
Volume Resistivity	2.21×10 ⁸	-	MΩ-cm	A	IPC-TM-650 2.5.17.1
Surface Resistivity	6.84×10 ⁷	-	MΩ	A	IPC-TM-650 2.5.17.1
Peel Strength	0.85	-	N/mm	after solder float 1 oz. HVLP foil	IPC-TM-650 2.4.8
Electrical Strength	60	Z	kV/mm	0.508mm(0.020")	IPC-TM-650 2.5.6.2
Flexural Strength	232/216	LW/CW	MPa	A	IPC-TM-650 2.4.4
Water Absorption	0.15	-	%	-	IPC-TM-650 2.6.2.1
Thermal Conductivity	0.46	-	W/m·K	100	ASTM D5470
Flammability	V-0	-	Rating	-	UL94