



Special PCB in PCBgate

Ceramic PCB Tech Specification

Property	Unit	Alumina Ceramic (Al ₂ O ₃)	Aluminum Nitride (AlN)	Test Standard
Composition	%	Al ₂ O ₃ ≥ 96	AlN ≥ 96%	GB/T 5231
Appearance	/	White	Gray	3.2
Thickness	mm	0.25 ~ 2.0	0.38 ~ 1.5	IPC-TM-650
Dimensions (L*W)	mm	100*100 ~ 140*190	50*50 ~ 127*127	IPC-TM-650
Density	g/cm ³	≥ 3.7	≥ 3.33	GB/T 2413
Water Absorption	%	0	0	IPC-TM-650
Thermal Conductivity (20°C)	W/(m·K)	≥ 20	≥ 170	GB/T 5598
Flexural Strength	MPa	≥ 350	≥ 450	GB/T 5593
Volume Resistivity (20°C)	Ω·cm	≥ 10 ¹⁴	≥ 10 ¹³	GB/T 5594
Dielectric Constant (1MHz)	/	9 ~ 10	8 ~ 10	IPC-TM-650
Dielectric Loss (1MHz)	/	≤ 3*10 ⁻⁴	≤ 4.5*10 ⁻⁴	IPC-TM-650