



AlN ceramic substrate plates with rounded corners

Aluminum Nitride Ceramic Substrates for IGBT Modules

Product ID / SKU: FWM/CS-ALN-005

Material: Aluminum Nitride

Product type: Ceramic Substrate

AlN substrates for electrically insulated heat transfer in IGBT power-module assemblies.

95% AlN Substrate Properties

Property	95% AlN typical value	Condition / method
AlN content (%)	95	-
Density (g/cm³)	≥3.3	-
Flexural strength (MPa)	≥400	-
Thermal conductivity (W/(m·K))	≥170	Room temperature
Relative permittivity	8-10	1 MHz; room temperature
Dielectric loss tangent	≤0.0003	1 MHz; room temperature
Dielectric strength (kV/mm)	17	-
Volume resistivity (Ω·cm)	≥10 ¹⁴	-