

TECHNICAL INFORMATION

Thin Film Ceramic AlN

Characteristics	Unit	Value
Color	-	Gray
Density	g/cm ³	3.3
Surface Finish-Ra typical (max)	Microinches	18-23 (39)
Average Grain Size	Micrometer	3-5
Water Absorbtion	%	NIL
Gas Permeability	-	NIL
Flexural Strength	MPa	360
Elastic Modulus	GPa	331
Specific Heat Capacity	J/kgK	740
Coefficient of Linear Thermal Expansion @ 25-200°C	10 ⁻⁶ /K	4.6
Thermal Conductivity @ 25°C	W/mK	170-190
Dielectric Strength typical	KV/mil	1
Dielectric Constant @ 1MHz, 25°C	-	8.9 +/-1.0
Loss Index @ 1MHz, 25°C	-	0.001
Electrical Resistivity @ 25°C	Ohmcm	> 10 ¹⁴