

## TECHNICAL INFORMATION

### Thick Film Ceramic AlN

Characteristics	Unit	Value
Color	-	Gray
Density	g/cm <sup>3</sup>	3.3
Surface Finish-CLA (as-fired)	Micrometer	< 0.6
Average Grain Size	Micrometer	3-5
Water Absorbtion	%	NIL
Gas Permeability	-	NIL
Flexural Strength	MPa	360
Elastic Modulus	GPa	320
Specific Heat Capacity	J/kgK	740
Coefficient of Linear Thermal Expansion @ 25-200°C	10 <sup>-6</sup> /K	4.7
Thermal Conductivity @ 20-100°C	W/mK	>180
Dielectric Strength	kV/mm	>20
Dielectric Constant @ 1MHz, 25°C	-	9.0
Loss Index @ 1MHz, 25°C	-	0.0004
Electrical Resistivity @ 25-200°C	Ohmcm	1.0x10 <sup>14</sup>