

## CERAMIC CHARACTERISTICS

<u>PROPERTIES</u>			<u>ALUMINIA</u>
BRAND AND CODES			A-99P
APPARANCE			DENSE
CHEMICAL COMPOSITION			AL <sub>2</sub> O <sub>3</sub> 99.9%
BULK DENSITY		g/cm <sup>3</sup>	3.90
APPARENT POROSITY		%	0.5>
MODULUS OF RUPTURE, RT		MPa	500
YOUNG'S MODULUS		GPa	365
POISSON'S RATIO			0.25
HARDNESS, Hv		GPa	15.7
FRACTURE TOUGHNESS		MPa√m	
THERMAL EXPANSION COEFFICIENT		x10 <sup>-6/K</sup>	8.2
THERMAL CONDUCTIVITY RT		W/m.K	
THERMAL SHOCK RESISTANCE ΔT		°C	
DIELECTRIC STRENGTH		KV/m	1 x 10 <sup>4</sup>
ELECTRICAL RESISTIVITY	20°C 500°C	Ω.cm	10 <sup>12</sup> 10 <sup>8</sup>
DIELECTRIC CONSTANT, 1MHz			10.0