

# Aluminum Oxide Composite

## Property Comparison\*

<i>Property</i>	<i>Ceralloy<sup>®</sup> 7712</i>
<i>Composition</i>	Al <sub>2</sub> O <sub>3</sub> -SiC
<i>Process</i>	Hot Press
<i>Density (g/cm<sup>3</sup>)</i>	3.36
<i>Outgassing</i>	No
<i>Thermal Conductivity (W/mK)(RT)</i>	
<i>Dielectric Constant</i> @1.0GH	
@8.0GH	130
@10.0GH	83
@12.0GH	69
<i>Loss Tangent</i> @1.0GH	
@8.0GH	0.4
@10.0GH	0.57
@12.0GH	0.53
<i>Thermal Expansion Coefficient 10<sup>6</sup>/°C</i> <i>(RT – 1000 °C)</i>	
<i>Flexural Strength (MPa) @ RT</i>	530
<i>Applications</i>	Slot Mode Absorbers
<i>Key Features</i>	

\* Property values are typical and should not be considered specifications.

