Ceramics Sciences Corporation

CS354 Dielectric for Aluminum Nitride

Product Description

CS354 is multilayer dielectric material designed for use on Aluminum Nitride substrates

Processing Conditions

Printing

Paste should be thoroughly mixed before use. Print directly on to aluminum nitride substrate. 300 mesh stainless screens with a 25 micron emulsion typically yields a dry thickness of 30 +/- 5 microns.

Drying and Firing

Allow prints to level for 10-15 minutes at room temperature, and then dry at 125 C in air for 10 to 15 minutes.

Firing is accomplished at 850 C peak for 10 minutes in air. Overall firing cycle may be 30 to 45 minutes.

Thinning

Thinning is not recommended. If needed texanol may be used.

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Table 1 **Typical Fired properties**
Fired Color: Blue Dielectric Constant: 7 Insulation resistance: > 1Tohm at 200 Vdc

Table 2 Properties Relevant to Processing
Printing: A 200 mesh screen with 25 micron emulsion. Leveling: 10 to 15 minutes at room temperature Drying: 10 to 15 minutes at 125 C Firing: Optimum results are obtained by firing at a peak temperature of 850 C for 10 minutes with total cycle time of 30 to 35 minutes.