

C1075S

Conductor

Description

C1075S (LPA409-021) is a screen printable, low cost and oxide-bond pure Ag conductor material. They offer cost savings over standard Ag/Pd formulations, while maintaining the advantages of leach resistance and aged adhesion. C1075S (LPA409-021) is for use on alumina. Resulting films are dense and uniform.

Key Features

- Excellent solderability and leach resistance on alumina
Compatible with HERAEUS resistors
Good initial and aged adhesion
Outstanding conductivity



Typical Properties

Viscosity	30 – 50 Pa·s (25°C, D = 100/s)
Solids	81.5 ± 1.0%
Alloy Ratio	100
Coverage	80 cm2/g (FFT: 12 µm)
Color	Silver
Resistivity	≤ 2.2 mΩ/□ (FFT: 12 µm)

Recommended Processing Guide

Printing Parameters	200 – 325 mesh stainless steel screen. Total thickness: 50 – 110 µm
Printing Speed	Up to 20 cm/s
Drying Temperature	150 °C for 10 - 20 minutes
Process Temperature (TDS)	Fire at 850 °C (peak) for 10 minutes, and with a total firing cycle time of c. 30 – 60 minutes
Film Thickness	13 – 16 µm

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Recommended Processing Guide (continued)

Recommended Thinner	Heraeus HVS 100
Paste Compatibility	Dielectrics: IP9025 Series, IP9029H Resistors:R8900 (WP09-XY) Series

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Warranty

Material guaranteed to meet specifications for 6 months from date of manufacturing with proper storage.

Storage

Store in a dry, cool (2 - 23°C), dark place with container tightly shut. Allow paste to come to room temperature prior to opening. Spatulate well before using.

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