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CERMET PLATINUM SILVER CONDUCTOR 9501-C

ESL 9501-C is a very low cost, high speed printing conductor material exhibiting high conductivity, and excellent adhesion and solderability.

PASTE DATA

RHEOLOGY:	Thixotropic, screen printable paste
VISCOSITY: (Brookfield RVT, ABZ Spindle, 10 rpm, 25.5°C±0.5°C)	225±25 Pa·s
BONDING MECHANISM:	Mixed
SHELF LIFE: (25°C)	6 Months

PROCESSING

SCREEN MESH/EMULSION:	325/25 µm
LEVELING TIME: (25°C)	5-10 minutes
DRYING AT 125°C:	10-15 minutes
FIRING RANGE:	850°C-930°C
OPTIMUM:	850°C
TIME AT PEAK:	10-12 minutes
RATE OF ASCENT/DESCENT	60°C-100°C/minute
SUBSTRATE FOR CALIBRATION:	96% alumina
THINNER:	ESL 401

TYPICAL PROPERTIES

FIRED THICKNESS:	10-15 µm
APPROXIMATE COVERAGE:	60-70 cm^2/g

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See Caution and Disclaimer on other side.

RESISTIVITY:	2.0-4.0 mΩ/sq.
PRINTING RESOLUTION: (Line/Space)	250 µm x 250 µm
SOLDER WETTABILITY: (RMA flux, 5 sec. dip)	
62 Sn/36 Pb/2 Ag, 220°C±5°C	excellent
SOLDER LEACH: (No. of 10 sec. dip to double the resistance of 0.25 mm wide x 100 mm long conductor)	6-10 dips
ADHESION: (90° pull, 2.0 x 2.0 mm pads, 62 Sn/36 Pb/2 Ag, 220°C±5°C)	
Initial pull strength:	50-70 N
Aged 48 hours at 150°C:	40-60 N
ULTRASONIC WIRE BOND: (25 µm Al wire)	8 grams
THERMOSONIC WIRE BOND: (25 µm Au wire)	6 grams
(50 µm Au wire)	20-30 grams

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