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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 pasteVISCOSITY:
(Brookfield RVT, ABZ Spindle, 10 rpm, 25.5°C±0.5°C)225±25 Pa·sBONDING MECHANISM:MixedSHELF 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: APPROXIMATE COVERAGE:

10-15 μm 60-70 cm²/g

9501-C 9710-C

ESL Affiliates

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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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CAUTION: Proper industrial safety precautions should be exercised in using these products. Use with adequate ventilation. Avoid prolonged contact with skin or inhalation of any vapors emitted during use or heating of these compositions. The use of safety eye goggles, gloves or hand protection creams is recommended. Wash hands or skin thoroughly with soap and water after using these products. Do not eat or smoke in areas where these materials are used. Refer to appropriate MSDS sheet.

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