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CERMET PLATINUM PALLADIUM SILVER CONDUCTOR

9564

ESL 9564 is a non-migrating platinum, palladium, silver conductor, excellent for use in multilayer hybrid circuits. ESL 9564 exhibits good adhesion, solderability, and leach resistance and it is compatible with a number of ESL dielectric and resistor systems.

PASTE DATA

RHEOLOGY:	Thixotropic, screen printable paste
VISCOSITY: (Brookfield RVT, ABZ Spindle, 10 rpm, 25.5°C±0.5°C)	250±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 OF CALIBRATION:	96% alumina
THINNER:	ESL 401

TYPICAL PROPERTIES

FIRED THICKNESS:	12.5±2.5 μm
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ESL Affiliates

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See Caution and Disclaimer on other side.

APPROXIMATE COVERAGE:		55-65 cm ² /g
RESISTIVITY:		25-35 mΩ/sq.
PRINTING RESOLUTION: (Line/Space)		150 μm x 150 μm
SOLDER WETTABILITY:		
(RMA flux, 5 sec. dip)	62 Sn/36 Pb/2 Ag (220°C±5°C)	very good
	63 Sn/37 Pb (250°C±5°C)	good
SOLDER LEACH: (62 Sn/36 Pb/2 Ag, 220°C±5°C)		
(No. of 10 sec. dip to double resistance of 0.25 mm wide x 100 mm long conductor)		5-7
ADHESION:		
(90° pull, 2.0 mm x 2.0 mm pads, 62 Sn/36 Pb/2 Ag)		
	Initial pull strength:	35-60 N
	Aged; 48 hours at 150°C:	25-45 N

9564 9808-B

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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