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REGAL™ SILVER PALLADIUM CERMET CONDUCTOR

C-964-A

ESL C-964-A is a high performance silver palladium member of the REGAL™ System of conductors and dielectrics specially formulated for use with the REGAL™ R-300-A and D-R-300-B Resistor Series. ESL C-964-A exhibits a smooth surface, good adhesion, excellent solderability and excellent leach resistance.

PASTE DATA

RHEOLOGY: Thixotropic, screen printable paste

VISCOSITY:

(Brookfield RVT, ABZ Spindle, 10 rpm, 25.5°C± 0.5°C) 275±50 Pa-s

BONDING MECHANISM: Mixed

SHELF LIFE: (25°C) 6 months

PROCESSING

SCREEN MESH/EMULSION: 325/25μm

LEVELING TIME: (25°C) 5-10 minutes

DRYING AT 125°C: 10-15 minutes

FIRING TEMPERATURE 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: 8-14 μm

APPROXIMATE COVERAGE: 75-125 cm²/g

RESISTIVITY: $\leq 6 \text{ m}\Omega/\text{sq.}$

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

ADHESION:

(90° pull, 2.0 mm x 2.0 mm pads, 62 Sn/36 Pb/2 Ag, 220°C±5°C)

Initial pull strength: $\geq 45 \text{ N}$

Aged 48 hours at 150°C: \geq 20 N

SOLDER LEACH:

(No. of 10 sec. dips to double resistance of 0.25 mm wide x 100 mm long conductor, 62 Sn/36 Pb/2 Ag, 220°C±5°C) > 5 dips

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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