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CERMET PALLADIUM SILVER CONDUCTOR

9693-S-A

ESL 9693-S-A is a low-cost, high speed printing palladium silver conductor that exhibits excellent adhesion, good solderability, and high conductivity.

PASTE DATA

RHEOLOGY: Thixotropic, screen printable paste

VISCOSITY:

(Brookfield RVT, ABZ Spindle, 10 rpm, 25.5°C±0.5°C) 150±25. Pa.s

BONDING MECHANISM: Mixed

SHELF LIFE:

(25°C) 6 months

PROCESSING

SCREEN MESH/EMULSION: 325/25 μ m LEVELING TIME: (25°C) 5-10 minutes DRYING AT 125°C: 10-15 minutes FIRING RANGE: 750°C-950°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 or 413

TYPICAL PROPERTIES

FIRED THICKNESS: 10-15 μm

APPROXIMATE COVERAGE: 90-100 cm²/g

RESISTIVITY: $\leq 3 \text{ m}\Omega/\text{sq}$.

PRINTING RESOLUTION:

(Line/Space) 250 μ m x 250 μ m

SOLDER WETTABILITY:

(RMA flux, 5 sec. dip, 62 Sn/36 Pb/2 Ag, 220°C±5°C) excellent

SOLDER LEACH

(No of 10 sec. dips to double the resistance of 0.25 mm

wide x 100 mm long conductor, 62 Sn/36 Pb/2 Ag, 220°C±5°C) 4-8 dips

ADHESION:

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

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

9693-S-A 9711-New

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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