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CERMET SILVER PALLADIUM CONDUCTOR

9693-G

Cadmium-Free • Lead-Free • Nickel-Free

ESL 9693-G is a low-cost silver palladium 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)	250±25 Pa·s
BONDING MECHANISM:	Mixed
SHELF LIFE:	6 months

PROCESSING

SCREEN MESH/EMULSION:	325/12.5 μm
LEVELING TIME:	5-10 minutes
DRYING AT 125°C:	10-15 minutes
FIRING RANGE:	750°C-950°C
CALIBRATION:	850°C
TIME AT PEAK:	10-12minutes
RATE OF ASCENT/DECENT:	60°C-100°C/minute
SUBSTRATE OF CALIBRATION:	96% alumina
THINNER:	ESL 413

9693-G 0006-C

ESL Affiliates

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See Caution and Disclaimer on other side.

TYPICAL PROPERTIES

FIRED THICKNESS:	10-15 μ m
RESISTIVITY:	\leq 2.0 m Ω /sq.
PRINTING RESOLUTION:	125 μ m x 125 μ m
SOLDERABILITY: (RMA flux, 5 sec. dip, 62 Sn/36 Pb/2 Ag, 220°C \pm 5°C)	\geq 95%
SOLDER LEACHING: (62 Sn/36 Pb/2 Ag, 220°C \pm 5°C) (No. of 10 sec. dip to double resistance of 0.25 mm wide x 100 mm long conductor)	\geq 5
ADHESION: (90° Pull, 2.0 mm x 2.0 mm pads, 62 Sn/36 Pb/2 Ag solder at 220°C \pm 5°C)	
Initial Pull Strength:	\geq 75N
1000 hrs. at 150°C	\geq 39N

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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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