ESL C-964-G is a low-cost, high-performance silver palladium conductor formulated for general use in hybrid circuit and component manufacture. It 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:**

<table>
<thead>
<tr>
<th>OPTIMUM:</th>
<th>850°C</th>
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<tbody>
<tr>
<td>TIME AT PEAK:</td>
<td>10-12 minutes</td>
</tr>
<tr>
<td>RATE OF ASCENT/DESCENT:</td>
<td>60°C-100°C/minute</td>
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<tr>
<td>SUBSTRATE OF CALIBRATION:</td>
<td>96% alumina</td>
</tr>
<tr>
<td>THINNER:</td>
<td>ESL 401</td>
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</tbody>
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C-964-G 0806-NEW

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See Caution and Disclaimer on other side.
TYPICAL PROPERTIES

FIRED THICKNESS: 8-14 µm
APPROXIMATE COVERAGE: 75-125 cm²/g
RESISTIVITY: ≤ 6 mΩ/sq.
PRINTING RESOLUTION: (Line/Space) 250 µm x 250 µm
SOLDER WETTABILITY: excellent
(RMA flux, 5 sec. dip, 62 Sn/36 Pb/2 Ag, 220°C±5°C)

ADHESION:
(90° pull, 2.0 mm x 2.0 mm pads, 62 Sn/36 Pb/2 Ag, 220°C±5°C)
  Initial pull strength: ≥ 45 N
  Aged 48 hours at 150°C: ≥ 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

* Complies with RoHS, ELV, WEEE and CHIP 3 EC directives

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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