



ESL ELECTROSCIENCE

CERAMIC TAPES &
THICK-FILM MATERIALS

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CERMET GOLD CONDUCTOR

8881-BA

ESL 8881-BA is an alloyed gold version of 8881-B designed for use on 96% alumina substrates or with 4905-C dielectric to give high coverage. The fired film exhibits excellent Al wire bond retention and strong adhesion to both bare alumina and 4905-C dielectric. Fired films of 8881-BA are very dense with no centre line depression and give excellent line definition.

PASTE DATA

Rheology:	Thixotropic, screen-printable paste
Viscosity: (Brookfield RVT, 10rpm, ABZ spindle, 25.5 ± 0.5 °C)	275 ± 25 Pa.s
Bonding Mechanism:	Fritless, MICRO-LOK [®]
Shelf Life (20 - 25 °C):	6 months

PROCESSING

Screen Mesh, Emulsion:	325 S/S, 15 µm
Levelling Time (at 20°C):	5 - 10 min
Drying Time (at 125°C):	10 -15 min
Firing Temperature Range:	850 - 1000°C in air
	Optimum: 850 °C
	Time at peak: 10 min
Rate of Ascent/Descent:	50 - 60 °C / min
Substrate for Calibration:	96% alumina
Thinner:	ESL 413

ESL Europe 8881-BA 9605-A

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See Caution and Disclaimer on other side.

TYPICAL PROPERTIES

Fired Thickness: (measured on a 2 mm x 2 mm pad on 96% alumina)	8.0 ± 1.0 µm
Approximate Coverage:	80 cm ² /g
Resistivity: (measured on a 100 mm x 0.25 mm conductor track)	< 5.0 mΩ/□
Printing Resolution: (line/space)	0.075 mm / 0.075 mm
Solderability:	Solderable with 80Au/20Sn alloy solder
Ultrasonic Al Wire Bond:	
Initial (25 µm wire)	> 8 g
Aged 48 hours at 150°C	> 6 g
Initial (250 µm wire)	> 450 g
Aged 48 hours at 150°C	> 400 g

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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 vapours 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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