

C5820

Conductor

Description

C5820 (LPA119-033) is a screen printable gold conductor, containing a mixed bonded Au formulation for Au wire bonding.

Key Features

- Suitable for fine line printing
- Excellent Au wire bondability and contact resistivity properties



Typical Properties

Viscosity	30 – 40 Pa·s, 25°C, D = 75 s-1
Solids	80.5 ± 0.5%
Coverage	c. 52 cm²/g at 9 µm FFT
Resistivity	≤ 3 mΩ / sq., FFT: 12 µm

Recommended Processing Guide

Printing Parameters	Print through a 200-400 mesh stainless steel screen.
Printing Speed	Up to 10 cm / s
Leveling	Level at room temperature for 2 - 5 minutes.
Drying Temperature	Dry at 150°C for 10 - 20 minutes.
Process Temperature (TDS)	Fire at 850°C (peak) for 10 minutes, and with a total firing cycle time of c. 30 – 60 minutes.
Film Thickness	3 – 5 µm

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Recommended Processing Guide (continued)

Line Definition	≥150 / 150 (width / space)
Recommended Thinner	Heraeus HVS100

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Warranty

Material guaranteed to meet specifications for 6 months from date of manufacturing with proper storage.

Storage

Store in a dry and cool condition at 5 – 25°C in a dark place with container tightly shut. When stored in a refrigerator, the paste should reach room temperature before being opened.

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