

3571S

Conductor

Description

3571S is a high performance silver conductor designed for cost sensitive hybrid applications. 3571S employs advanced powders technology with a mix bonded frit system to yield a highly dense fired film that is resistant to solder leaching. 3571S also exhibits excellent adhesion to Beryllium Oxide (BeO) substrates.

Key Features

- Dense fired film Designed for cost sensitive hybrid applications Exhibits excellent adhesion to beryllium oxide substrates



Typical Properties

Viscosity	180 – 240 kcps, Brookfield HBT, SC4-14 spindle & 6R utility cup @ 10 rpm, 25°C
Coverage	70-75 cm 2/gm (Calculated from 50 micron wet film)
Resistivity	≤ 2.0 milliohms per square at 25 microns fired film thickness
Solderability	62 Sn/36 Pb/2 Ag at 230°C 80 mil x 80 mil pads 3 second dip > 99% coverage
Solder Leaching	62Sn/36Pb/2Ag at 230°C 1x10 sec dip 10 mil wide conductor trace ≤ 10% loss

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Recommended Processing Guide

Printing Parameters	200-325 stainless steel mesh screen 0.4 – 1.0 mil emulsion Allow parts to level at room temperature for 1 - 3 minutes before drying.
Printing Speed	Up to 10 in/sec (25 cm/sec)
Drying Temperature	150°C for 10 to 15 minutes
Process Temperature (TDS)	850°C peak temperature Dwell time of 5-10 minutes at peak Firing range of 850 - 925°C possible with minimal differences in properties
Film Thickness	9 - 15 µm
Line Definition	≥ 125 microns (5 mils)
Recommended Thinner	Heraeus RV-372

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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 location at 5 – 25°C. DO NOT REFRIGERATE. Allow paste to come to room temperature prior to opening. Spatulate well before using, as settling may occur during storage.

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