

C4740D

Conductor

Description

C4740D is a general purpose Ag/Pt conductor for use on Al₂O₃ substrates. C4740D is suitable as a termination for all Heraeus air fireable resistor systems and also performs well as an inner layer conductor in multilayer applications. C4740D can be printed at speeds up to 12 inches per second.

Key Features

- Outstanding adhesion to alumina and beryllium oxide (BeO) substrates Excellent performance at high print speeds Excellent solderability



Typical Properties

Viscosity	70 – 90 kcps, Brookfield HBT, SC4-14 spindle & 6R utility cup @ 10 rpm, 25°C
Solids	84.0 ± 1.0%_x000D_
Coverage	106 cm ² /g at 14 microns fired film thickness
Resistivity	≤ 3.5 milliohms per square at 14 microns fired film thickness
Solderability	62Sn/36Pb/2Ag @ 225°C RMA flux, 5sec dip ≥ 95% coverage
Solder Leaching	62Sn/36Pb/2Ag, 225°C RMA flux, 5sec dip ≤ 10% loss

Recommended Processing Guide

Printing Parameters	280 stainless steel mesh screen 0.5 mil emulsion
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Recommended Processing Guide (continued)

Drying Temperature	Allow parts to level at room temperature for 5 minutes. 150°C for 10 minutes
Process Temperature (TDS)	850°C peak temperature Dwell time of 10 minutes at peak _x000D_
Film Thickness	12-16 microns
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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