

C4740M

Conductor

Description

C4740M is a Pt/Ag conductor for use on alumina and BeO substrates. C4740M is suitable as a termination for all Heraeus air fireable resistor systems or for circuits, which require aluminum wire bonding. C4740M easily prints fine line patterns or large area ground planes, even at high print speeds.

Key Features

- Outstanding adhesion to alumina and berillium oxide substrates Can be used as a resistor termination Low Resistivity



Typical Properties

Viscosity	180 – 250 kcps, Brookfield HBT, SC4-14 spindle & 6R utility cup @ 10 rpm, 25°C
Solids	79.1 ± 1.0%
Resistivity	≤ 3.75 milliohms/sq. at 9 microns fired film thickness
Solderability	95Sn/5Ag at 260°C RMA flux > 95% coverage
Solder Leaching	95Sn/5Ag, 260°C1X10 sec dip <10% loss

Recommended Processing Guide

Printing Parameters	250- 325 stainless steel mesh screen, 0.5 mil emulsion
Drying Temperature	150°C for 5-10 minutes
Process Temperature (TDS)	850°C peak temperature Dwell time of 10 minutes

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Recommended Processing Guide (continued)

Film Thickness	Fired: 9 - 12 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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