

Technical Data Sheet

THICK FILM MATERIALS

Product Type: Component Metallization

Product Name: DT8785



Pb Free NTC Thermistor Termination

Description

DT8785 is a Pb and Cd free solderable silver termination paste designed for NTC thermistor bodies. It has a wide firing range with excellent solderability and adhesion using lead free solder. The rheology is suitable for screen printing.

Key Benefits

- REACH¹ and ROHS² compliant
- Formulated for NTC bodies
- Excellent adhesion
- Excellent solderability
- Wide firing window
- Screen printable

Typical Properties

Metal
Silver

Resistivity
< 2.5 mΩ/□
at 12 μm fired film thickness

Solderability
Sn99/Cu1 at 250 °C, 3 – 5 seconds (RMA Flux)
SAC305 at 250 °C, 3 – 5 seconds (RMA Flux)

Viscosity
25 – 35 Pa-s; Paar Physica Rheometer
Parallel Plate (PP50), 1 mm gap, 100/s at 25 °C

Solids
85.0 ± 1.0 %

F.O.G
≤ 15 μm (4th scratch)
≤ 10 μm (50 % break)

Recommended Processing Guidelines

Printing
280 – 325 mesh stainless steel screen
0.5 mil emulsion

Drying
150 °C for 10 – 20 minutes

Firing
700 – 800 °C peak temperature
Dwell time of 10 – 12 minutes at peak

Thickness
Wet 32 – 34 μm
Fired 10 – 12 μm

Thinner
RV-507

Warranty
Material guaranteed to meet specifications for 6 months from date of shipment.

Storage
Store in a dry location at 20 – 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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Legend:

1) REACH compliant according to the latest ** Annex XIV to Regulation (EC) of the European Parliament and of the council on the Registration, Evaluation, Authorisation and Restriction of Chemicals ("REACH") by European Chemicals Agency and its subsequent amendments; the material does not contain any substance listed in Annex XIV.

2) RoHS compliant according to the latest ** Directives (European Union) of Restriction of Hazardous Substances ("RoHS") and its subsequent amendments (including the exceptions related to Pb).

* See the data sheet issue date (DD/MM/YY) as reference of validity of latest edition which is available on request

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