Heraeus

Electronics

TC2306

LTCC

Description

TC2306 is a pure Ag conductor with low resistivity and superior fine line print resolution. TC2306 provides excellent compatibility with low temperature co-fired ceramic (LTCC) during the co-firing process. TC2306 is optimized for screen printing as a routing conductor. The material may readily be used to print fine line patterns.

Key Features

- Low resistivity provides low line loss at microwave frequencies
- Compatible with LTCC
- Prints fine line patterns

Typical Properties	
Viscosity	125 – 185 kcps, Brookfield HBT, SC4-14 spindle & 6R utility cup @ 20 rpm, 25°C reading taken @ 5 minutes of measurement
Conductivity	≤2.5 milliohms/square at 12.5-17 µm dried film thickness
Solids	79.75 ± 1.00%
Resistivity	≤2.5mΩ/□ at 12.5 – 17 µm dried film thickness
Recommended Processing Guide	
Process Temperature (TDS)	870 – 880 °C peak temperature Ramp from burnout to firing peak: 5 °C/minuteDwell time at peak: up to 30 minutesTotal cycle time up to 12 hours(Most easily achieved in a box oven).

Heraeus Electronics GmbH & Co.KG, 63450 Hanau, Germany
Web: www.heraeus-electronics.com

TC2306

LTCC

Warranty

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

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.

Americas	Asia Pacific	China	Europe, Middle East and Africa
Phone +1 610 825 6050	Phone +65 6571 7649	Phone +86 53 5815 9601	Phone +49 6181 35 4370
electronics.americas@heraeus.com	electronics.apac@heraeus.com	electronics.china@heraeus.com	electronics.emea@heraeus.com

The descriptions and engineering data shown here have been compiled by Heraeus using commonly accepted procedures, in conjunction with modern testing equipment, and have been compiled as according to the latest factual knowledge in our possession. The information was up-to date on the date this document was printed (latest versions can always be supplied upon request). Although the data is considered accurate, we cannot guarantee accuracy, the results obtained from its use, or any patent infringement resulting from its use (unless this is contractually and explicitly agreed in writing, in advance). The data is supplied on the condition that the user shall conduct tests to determine materials suitability for particular application. The Heraeus logo and Heraeus, figurative mark are trademarks or registered trademarks of Heraeus Holding GmbH or its affiliates. All rights reserved.

All changes are based on information displayed using the template data_sheet/HET/TFM/print_data_sheet.html.twig.
Version (last updated) 21 Aug 2026

Heraeus Electronics GmbH & Co.KG, 63450 Hanau, Germany
Web: www.heraeus-electronics.com