

TC7404

LTCC

Description

TC7404 is a fritted conductor material, with a silver/palladium ratio of 6:1. It is ideal for use as a resistor termination, and exhibits excellent wire bonding properties with heavy aluminum wire. TC7404 was specifically developed for use as a conductor on Heraeus tape system of CT700 Series, CT707, CT708 and CT800 Series. It exhibits a particularly good adhesion when (post-) fired upon these glass-based tape substrates.

Key Features

- Good solderability and leach resistance Solderable on CT700 Series, CT707, CT708 and on CT800 Series Compatible with HERAEUS resistors Excellent aluminum wire bond properties

Typical Properties

Conductivity	≤ 20 milliohms/square (FFT: 12 μm)
Viscosity	30 – 50 Pas (25 °C, D = 100/s)
Metal	AgPd

Recommended Processing Guide

Process Temperature (TDS)	Fire at 850 – 865 °C (peak) for 10 minutes, and with a total firing cycle time c. 30 – 60 minutes
Film Thickness	11 – 15 μm

Americas

Phone +1 610 825 6050

electronics.americas@heraeus.com

Asia Pacific

Phone +65 6571 7649

electronics.apac@heraeus.com

China

Phone +86 53 5815 9601

electronics.china@heraeus.com

Europe, Middle East and Africa

Phone +49 6181 35 4370

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) 26 Feb 2026

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