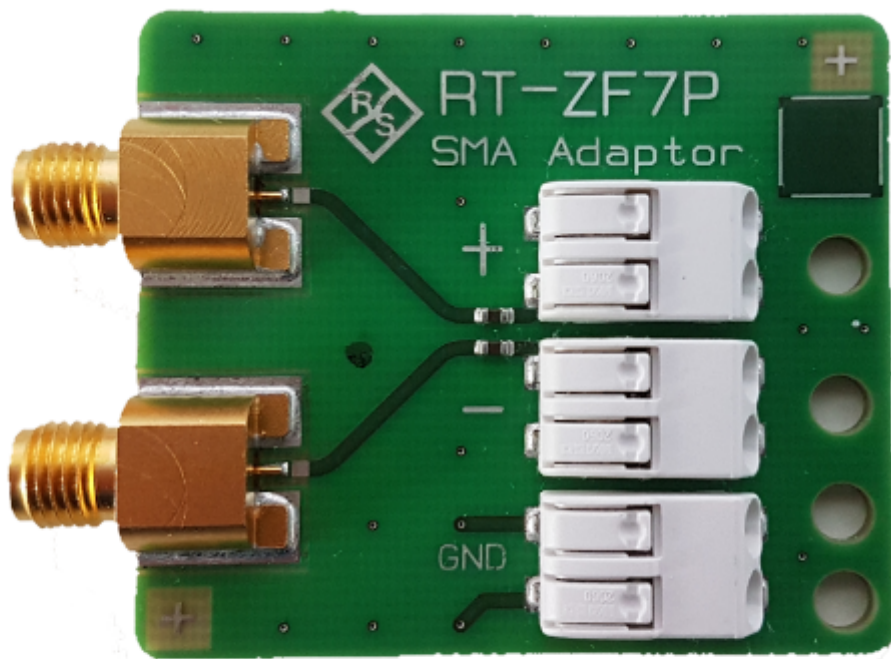


R&S®RT-ZF7P SMA Adapter Manual



1802958002

Version 03

ROHDE & SCHWARZ

Make ideas real



This manual describes the R&S RT-ZF7P SMA adapter variants 1802.9544.02 and 1802.9544.03.

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Subject to change – data without tolerance limits is not binding.

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1802.9580.02 | Version 03 | R&S®RT-ZF7P

Throughout this document, R&S® is indicated as R&S.

1 Safety information

The product documentation helps you to use the product safely and efficiently. Keep the product documentation nearby and offer it to other users.

Safety information warns you about the potential dangers and gives instructions how to prevent personal injuries or damage caused by dangerous situations. Throughout the documentation, safety instructions are provided when you need to take care during setup or operation.

Intended use

The equipment under test (EUT) is a signal quality test and development board, indented to be used at laboratory or test and measurement areas. These areas are used for analysis, testing and servicing and where equipment is operated by trained personnel.

Operating site

Only use the product indoors, and keep it dry. The product has no casing and is sensitive to moisture and humidity.

The product is suitable for pollution degree 2 environments where nonconductive contamination can occur. For more information on environmental conditions such as ambient temperature, see the specifications.

Disposal



In line with EN 50419, the product cannot be disposed of in the normal household waste. Even disposal via the municipal collection points for waste electrical and electronic equipment is not permitted.

Rohde & Schwarz has developed a disposal concept for the eco-friendly disposal or recycling of waste material. Rohde & Schwarz fully assumes its obligation as a producer to take back and dispose of electrical and electronic waste. Contact your local service representative to dispose of the product.

2 Product description

The R&S RT-ZF7P SMA adapter is used to connect twisted-pair cables to SMA cables.

Variant 1802.9544.02 is designed for Ethernet with power transfer over data line (PoDL) and data rates < 100 Mbit. The fixture blocks DC power between SMA plugs and clamps using 1 uF capacitors. It is used independently or in combination with:

- R&S RT-ZF7 Automotive Ethernet T&D Fixture
- R&S RT-ZF8 Automotive Ethernet Compliance Fixture

Variant 1802.9544.03 is designed for the PMA compliance test of Automotive Ethernet standard 10BASE-T1S.

For specifications data, see the "R&S RT-ZFxx Oscilloscope Test Fixtures - Specifications" document at www.rohde-schwarz.com/brochure-datasheet/rtp. Order numbers of the oscilloscope options are listed in the specifications document of the used instrument.

2.1 Deliveries

The R&S RT-ZF7P delivery package contains the following items:

- R&S RT-ZF7P SMA adapter
- Manual

3 Connecting the board

1. Connect the oscilloscope to the SMA plugs.
2. Connect the DUT to the clamps.
3. Variant 1802.9544.02 only: If you need to inject power, use the second input of the appropriate clamps.

4 Contacting customer support

Technical support – where and when you need it

For quick, expert help with any Rohde & Schwarz product, contact our customer support center. A team of highly qualified engineers provides support and works with you to find a solution to your query on any aspect of the operation, programming or applications of Rohde & Schwarz products.

Contact information

Contact our customer support center at www.rohde-schwarz.com/support, or follow this QR code:



Figure 4-1: QR code to the Rohde & Schwarz support page