

# 50 Ω DUT Board TB-50/SMA

Advanced TLP/HMM/HBM Solutions

## 1 Features

- 50 Ω DUT Board with SMA interface for TLP measurement of packaged devices
- DUT pad pitch range from 0.5 mm up to 25 mm with excellent RF performance due to grounded coplanar transmission line design and GND via array
- ROGERS high frequency RO4003C, 0.032" (0.813 mm) thick hydrocarbon ceramic laminate
- Gold-plated
- typ. 0.2 dB at 3 GHz insertion loss
- 30 mm x 14 mm size

## 2 Description

The TB-50/SMA DUT board can be used for TLP measurement of packaged devices in a 50 Ω system. The transmission line of the DUT board is configured as a grounded coplanar structure with 0.5 mm gap. The design parameter of the grounded coplanar transmission line are shown in Fig. 1.

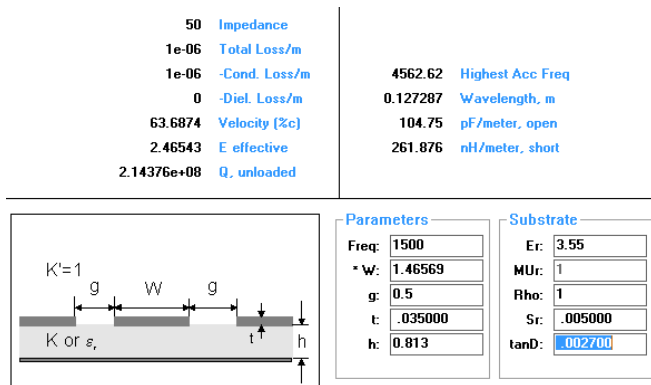


Figure 1: TB-50/SMA DUT board grounded coplanar transmission line design. Dimensions are in [mm] and [MHz] if not specified.

Fig. 2 shows top and bottom view of the board. For 0.5 mm pad pitch the DUT should be soldered at location **A** and **B**. For DUT pad pitch up to 25 mm the device can be soldered at location **C** and **D** without any loss in RF performance of the TLP measurement due to the GND via array of the board.

## 3 Electrical Characteristics

### 3.1 Frequency Response

Fig. 3 shows the typical insertion loss of the DUT board with reference planes at the SMA connectors.

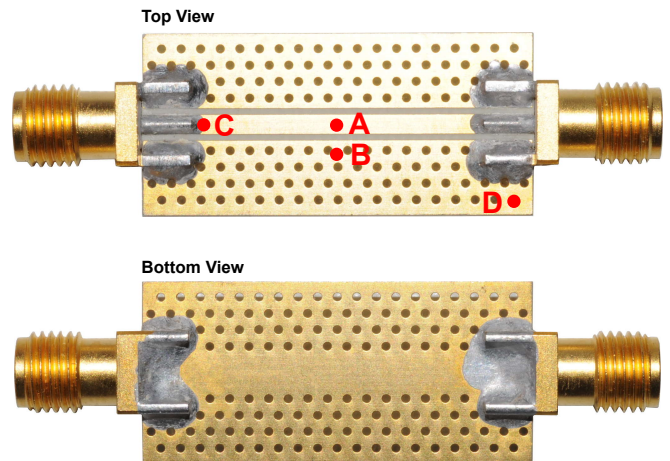


Figure 2: TB-50/SMA DUT board top and bottom view (size 30 mm x 14 mm).

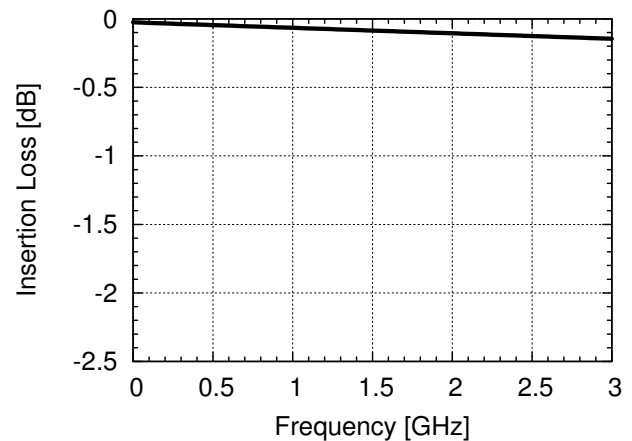


Figure 3: TB-50/SMA DUT board typical insertion loss.

## 4 Ordering Information

Pos.	Description	Part No.
01	50 Ω DUT Board	TB-50/SMA

### General

The product data contained in this data-sheet is exclusively intended for technically trained staff. You and your technical departments will have to evaluate the suitability of the product for the intended application and the completeness of the product data with respect to such application. Our products are solely intended to be commercially used internally and should not be sold to consumers. This data-sheet is describing the specifications of our products for which a warranty is being granted by HPPI GmbH. Any such warranty is granted exclusively pursuant the terms and conditions of the respective supply agreement. There will be no guarantee of any kind for the product and its specifications. For further information on technology, specific applications of our product, delivery terms, conditions and prices please contact HPPI:

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