



**SIGNAL  
MICROWAVE**

*Giga Probes*  
DVT Solutions, LLC

# Signal Microwave

## De-embedding Plug and Play Kit in Support of IEEE-P370

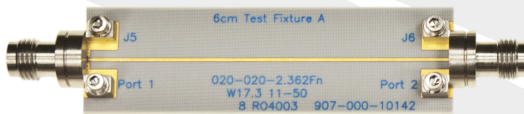
Our library of innovative designs led to this kit which includes 70 GHz test boards, 2.92 mm, 2.40 mm or 1.85 mm connectors, and a flush short, all using our own designed and manufactured boards and connectors.

### Five Board Types



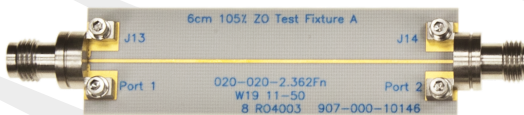
#### 1 6 cm DUT Microstrip

The de-embedded kit takes a known DUT which can be directly measured and the results saved. The data for the DUT is established at NIST traceable reference planes and therefore is repeatable.



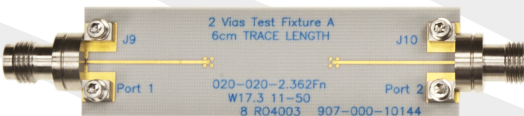
#### 2 6 cm Test Fixture

A set of 2 test fixtures with good performance can be measured and de-embedding files created. The de-embedding algorithm is applied and the resultant DUT data can be compared to the directly measured DUT data.



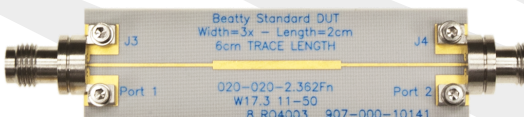
#### 3 6 cm 105% Z<sub>0</sub> Test Fixture

A degraded set of fixtures with 105% impedance is also included to challenge the de-embedding algorithm.



#### 4 2 Vias Test Fixture

A third set of fixtures with the microstrip line starting on top of the board then transitioning to the bottom of the board and back on top again is included. These will further challenge the de-embedding algorithm.



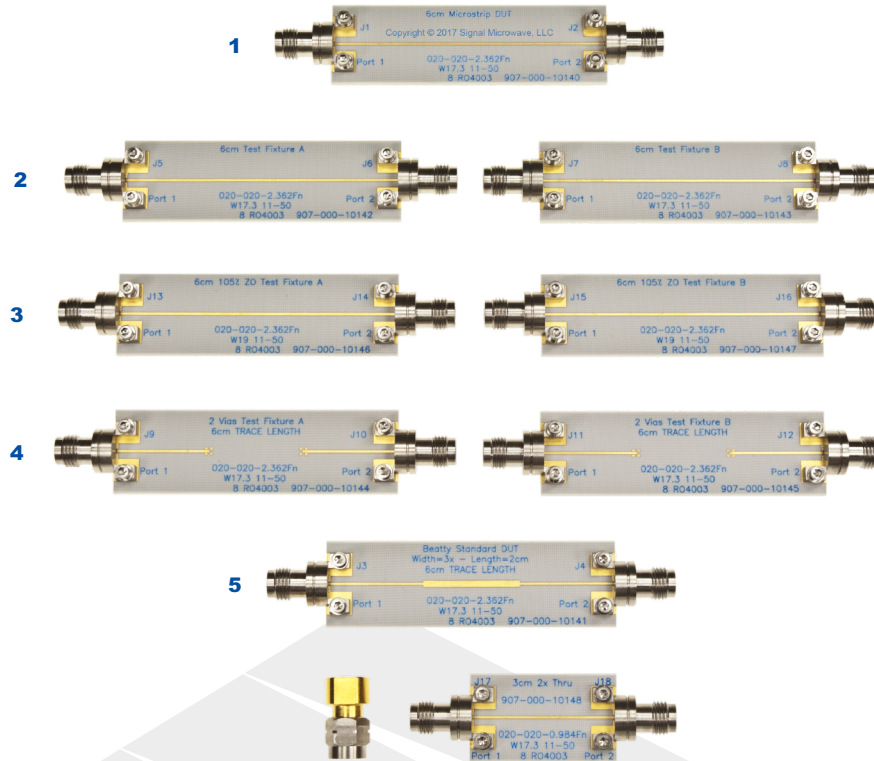
#### 5 Beatty Standard DUT

A "Beatty" standard line of 50 ohm / 25 ohm / 50 ohm impedance is also available as a DUT and can be used to verify TDR measurement de-embedding.

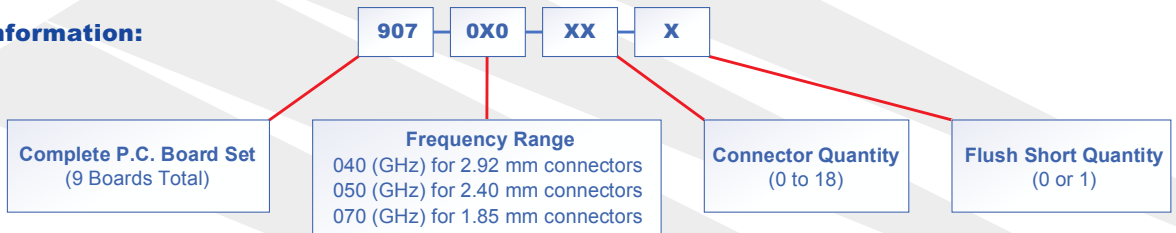
**Signal Microwave, LLC**  
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(480) 322-4992



The complete kit includes these nine boards and a flush short. The boards are variations of the five board types.



**Ordering Information:**



**Prices for Complete kit:** (prices can be reduced by removing connectors)

- 40 GHz – \$7,880
- 50 GHz – \$8,662
- 70 GHz – \$8,792

**Also Available:**

- User's Guide
- 3D models of the connectors for simulation
- .dxf files of the boards for simulation
- The VNA manufacturers supporting this kit will supply reference measurements for the kit.
- Reference de-embedding files
- Reference ADS files

**Uses:**

- Evaluate de-embedding software from different vendors
- Verify consistency of measurements after software upgrades
- Training tool for learning how to use different de-embedding techniques

**The bottom side of each test coupon will have:**

- Signal Microwave Label
- Kit Part Number
- De-Embedded Plug and Play Kit
- Dielectric material and trace width information
- Blank silk screen square for customer marking

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