

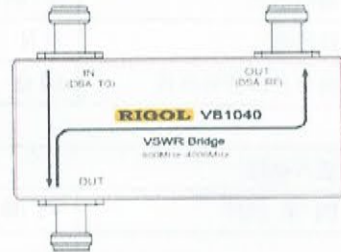


VB1040 VSWR Bridge

Product Overview

VB1040 is used in combination with the **RIGOL** DSA series spectrum analyzer to measure S11-related parameters (such as return loss, reflection coefficient and VSWR). VB1040 provides three N (Female) connectors as shown in the figure below.

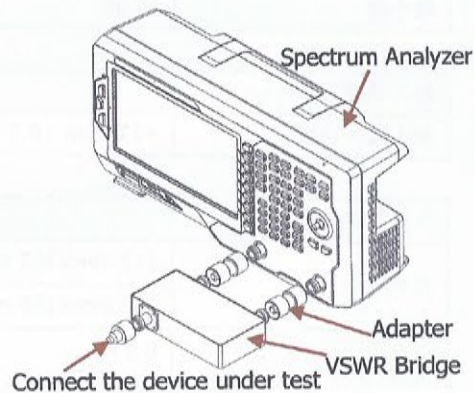
- **IN:** Signal input terminal. Here the signal generator or the output terminal of the tracking generator of the spectrum analyzer is connected.
- **OUT:** Signal output terminal. Here the power meter or the RF input terminal of the spectrum analyzer is connected.
- **DUT:** Here the device under test is connected.



Measurement Connection

Connect VB1040 to the spectrum analyzer as shown in the figure on the right.

- **Connect the spectrum analyzer**
Use 2 Dual N (Male) adaptors to connect the output terminal of the tracking generator and the RF input terminal of the spectrum analyzer to the **IN** terminal and **OUT** terminal of the VSWR bridge respectively.
- **Connect the device under test**
Do not use cables or adaptors as far as possible to avoid additional reflection.



Typical Applications

- Measurement of the S11-related parameters of the filter, amplifier, mixer, etc.
- Resonant frequency and VSWR tests of the antenna.

Specifications

| Frequency | |
|-----------------|------------------|
| Frequency range | 800 MHz to 4 GHz |

| Connector | |
|----------------|--------------------|
| Connector type | N (Female) Type |
| Adaptor | Dual N (Male) Type |
| Impedance | 50 Ω |

| Insertion Loss | |
|----------------|-----------------|
| IN to DUT | <1 dB (typical) |

| Directivity | |
|-------------|--------------|
| Typ. | ≥ 20 dB |
| Min. | 15 dB |

| Input Power | |
|---------------------|-----------------|
| Maximum Input Power | +27 dBm (0.5 W) |

| General Specifications | |
|------------------------|--------------------------------------|
| Dimensions | 112 mm×103 mm×16.5 mm |
| | 256 mm×190 mm×43 mm (With Package) |
| Weight | 0.5 kg |
| | 1.2 kg (With Package) |
| Operation Temperature | -20 $^{\circ}$ C to 80 $^{\circ}$ C |
| Storage Temperature | -40 $^{\circ}$ C to 100 $^{\circ}$ C |