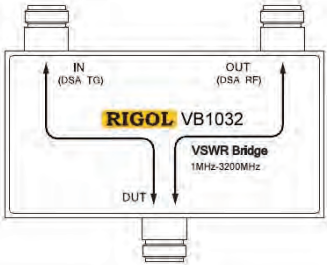
VB1032 VSWR Bridge

Product Overview

VB1032 is used in combination with the **RIGOL** DSA series spectrum analyzer to measure S11-related parameters (such as return loss, reflection coefficient and VSWR). VB1032 provides three N (Female) connectors as shown in the figure below.

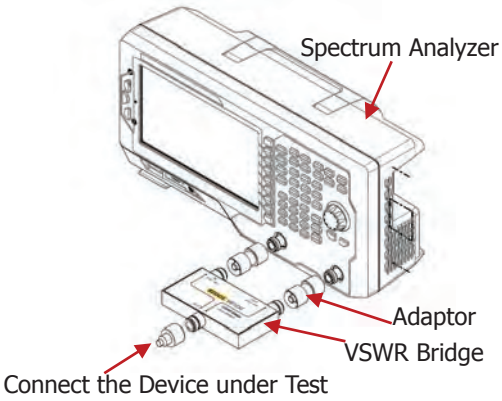
- **IN:** Signal input terminal. Here the signal generator or the output terminal of the tracking generator of the spectrum analyzer is connected.
- **OUT:** Signal output terminal. Here the power meter or the RF input terminal of the spectrum analyzer is connected.
- **DUT:** Here the device under test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



Measurement Connection

Connect VB1032 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	1 MHz to 3.2 GHz

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

Insertion Loss	
IN to DUT	< 10 dB (Typical)

Directivity	
Typical	1 MHz to 10 MHz: ≥ 25 dB 10 MHz to 3 GHz: ≥ 30 dB 3 GHz to 3.2 GHz: ≥ 25 dB

Input Power	
Maximum Input Power (DC Not Allowed)	+27 dBm (0.5 W)

General Specifications	
Dimensions	115 mm × 62 mm × 18 mm
	256 mm × 190 mm × 43 mm (With Package)
Weight	0.2 kg
	0.9 kg (With Package)
Operation Temperature	25℃ ± 5℃
Storage Temperature	-40℃ to 70℃[1]

NOTE[1]: In an environment with extremely high temperature or high humidity, the oxidation may occurs to the product surface.