

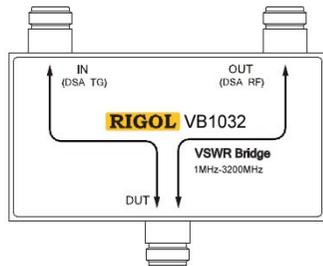
RIGOL

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.

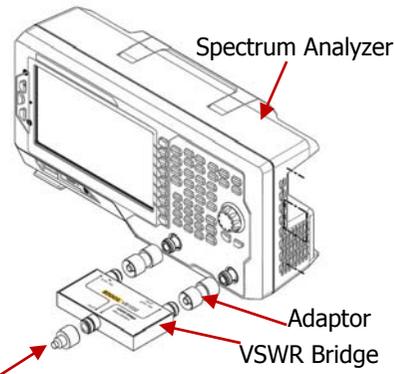
- **IN:** Signal input terminal. Here the signal generator or the output terminal of the tracking generator of the spectrum analyzer is connected.
- **OUT:** Signal output terminal. Here the power meter or the RF input terminal of the spectrum analyzer is connected.
- **DUT:** Here the device under test 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**
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 \times 62 mm \times 18 mm
	256 mm \times 190 mm \times 43 mm (With Package)
Weight	0.2 kg
	0.9 kg (With Package)
Operation Temperature	25°C \pm 5°C
Storage Temperature	-40°C to 70°C ^[1]

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