

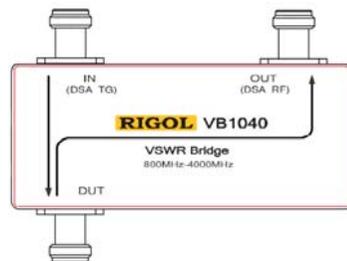


VB1040 VSWR Bridge

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.

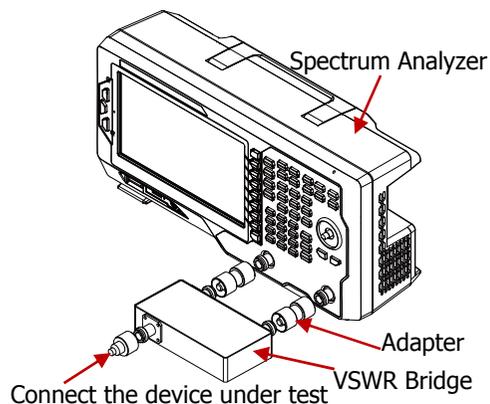
- **IN:** Signal input terminal. Here the signal generator or the output terminal of the tracking generator of the spectrum analyzer is connected.
- **OUT:** Signal output terminal. Here the power meter or the RF input terminal of the spectrum analyzer is connected.
- **DUT:** Here the device under test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