

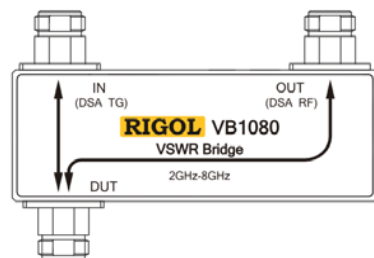


## VB1080 VSWR Bridge

### Product Overview

VB1080 is used in combination with the **RIGOL** DSA series spectrum analyzer to measure S11-related parameters (such as return loss, reflection coefficient and VSWR). VB1080 provides three N (Female) connectors as shown in the figure below.

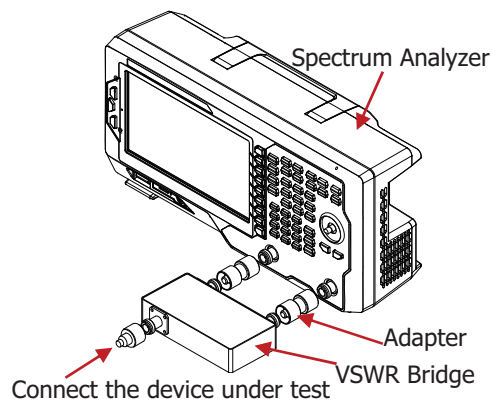
- **IN:** Signal input terminal. Here the signal generator or the output terminal of the tracking generator of the spectrum analyzer is connected.
- **OUT:** Signal output terminal. Here the power meter or the RF input terminal of the spectrum analyzer is connected.
- **DUT:** Here the device under test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



### Measurement Connection

Connect VB1080 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	2 GHz to 8 GHz

Connector	
Connector type	N (Female) type
Adaptor	dual N (Male) type
Impedance	50 $\Omega$

Insertion Loss	
IN to DUT	<1 dB (typical)

Directivity	
Typ.	$\geq 20$ dB
Min.	15 dB

Input Power	
Maximum input power	+27 dBm (0.5 W)

General Specifications	
Dimensions	115 mm×41 mm×17.5 mm
	256 mm×190 mm×43 mm (with package)
Weight	0.2kg
	0.9kg (with package)
Operation temperature	-20 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$
Storage temperature	-40 $^{\circ}\text{C}$ to 100 $^{\circ}\text{C}$