

VB1020 VSWR Bridge

Product Overview

VB1020 is used in combination with the **RIGOL** DSA series spectrum analyzer to measure S11-related parameters (such as return loss, reflection coefficient and VSWR). VB1020 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 wattmeter or the RF input terminal of the spectrum analyzer is connected.
- **DUT**: Here the device under test is connected.

Measurement Connection

Connect VB1020 to the spectrum analyzer as shown in the figure on the right.

- Connect the spectrum analyzer
 Use 2 adaptors (N male-N male) 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

equency		
Frequency range		1 MHz to 2 GHz

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

Insertion Loss		
IN to DUT		5 dB (typical)

Directivity		
Тур.		20 dB
Min.		15 dB

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

General Specifications		
Dimensions		130 mm×75 mm×30 mm
	With Package	256 mm×190 mm×43 mm
Weight		0.5 kg
	With Package	1.2 kg
Operation Temperature		-20 °C to 80 °C
Storage Temperature		-40 °C to 100 °C