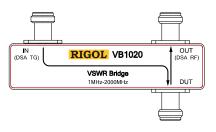


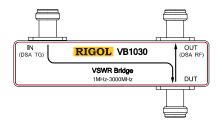
VB1020/VB1030 VSWR Bridge

Product Overview

VB1020/VB1030 with 1 MHz to 2 GHz/3 GHz measuring range, 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/VB1030 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.

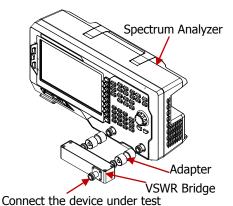




Measurement Connection

Connect VB1020/VB1030 to the spectrum analyzer as shown in the figure on the right.

Connect the spectrum analyzer
Use 2 adapters (N male-N male) to
connect the output terminal of the
tracking genrator 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.

User's Guide RIGOL

Specifications

Frequency		
Frequency range	VB1020	1 MHz to 2 GHz
	VB1030	1 MHz to 3 GHz

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

Insertion Loss		
IN to DUT		5 dB (typical)

Directivity		
1 MHz to 500 MHz		≥30 dB
500 MHz to 2 GHz	VB1020	≥22 dB
500 MHz to 3 GHz	VB1030	≥22 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 ℃ to 80 ℃
Storage Temperature		-40 ℃ to 100 ℃