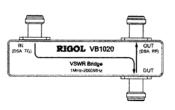
RIGOL Beyond Measure

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.

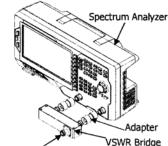
- IN: Signal input terminal. Here the signal generator or the output terminal of the tracking generator of the spectrum analyzer is connected.
- OUT: Signal output terminal. Here the wattmeter or the RF input terminal of the spectrum analyzer is connected.
- DUT: Here the device under test is connected.



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
 Do not use cables or adaptors as far as possible to avoid additional reflection.



Typical Applications

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- Measurement of the S11-related parameters of the filter, amplifier, mixer, etc.
- Resonant frequency and VSWR tests of the antenna.

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Specifications

Frequency				
Frequency range		1 MHz to 2 GHz		

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

Insertion Loss	Insertion Loss		
IN to DUT	5 dB (typical)		

Directivity		
Тур.	20 dB	\neg
Min.	15 dB	٦

Input Power	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 °C to 100 °C		

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