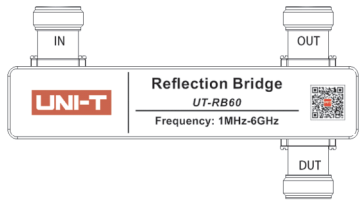
UNI-T

VSWR 电桥

产品简介

UT-RB60用于优利德UTS3000T+系列对被测设备进行回波损耗、反射系数和电压驻波比等S11参数测量。UT-RB60 VSWR电桥N（阴）型端口形式，如下图所示。

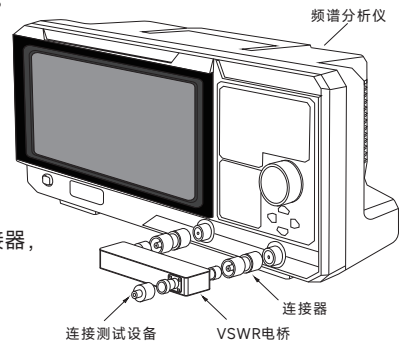
- IN:信号输入端。用于连接频谱仪的跟踪源输出端。
- OUT：信号输出端。用于连接频谱仪的射频输入端。
- DUT：用于连接被测设备。



测量连接

UT-RB60与频谱分析仪的连接方式如右图所示。

- **与频谱分析仪连接**
  使用2个双N（阳）型转换器分别连接频谱仪的跟踪源输出端和VSWR电桥的IN端、频谱仪的射频输入端和VSWR电桥的OUT端。
- **与被测设备连接**
  连接被测设备时，请尽可能少的使用电缆或转接器，以避免引入额外的反射。



典型应用

- 滤波器、放大器、混频器等无源器件的S11相关参数测量
- 天线频率、电压驻波比测试

PN:110401113055X

UNI-T

性能参数

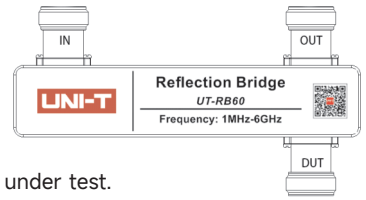
频率				
带通频率范围	1MHz至6GHz			
端口类型				
端口形式	N（阴）型			
转接器	双N（阳）型			
端口及转接器阻抗	50Ω			
插入损耗				
IN至DUT	≤4.5dB（典型值）			
方向性				
频率范围	1MHz至5MHz	5MHz至3.3GHz	3.3GHz至4.5GHz	4.5GHz至6GHz
方向性	15（典型值）	24（典型值）	18（典型值）	15（典型值）
输入功率				
最大输入功率	+27dBm（0.5W）			
一般技术规格				
工作温度	-40°C至+70°C			
储存温度	-55°C至+85°C			
材料	铝合金			
外观	喷砂本色导电			
尺寸	112mm×61mm×22mm（宽×高×深）			
重量	0.15kg			

2024年11月

VSWR Bridge

Product Introduction

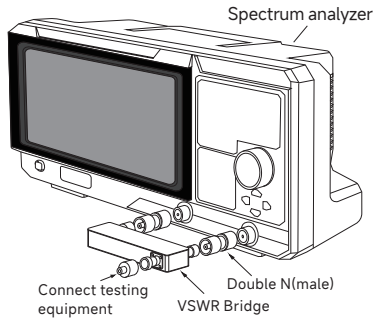
The UT-RB60 is used with the UNI-T UTS3000T+ series to measure S11 parameters such as return loss, reflection coefficient, and voltage standing wave ratio (VSWR) for the device under test. The UT-RB60 VSWR bridge features an N-type (female) port configuration, as shown in the diagram below.



- **IN**: Signal input terminal. It is used to connect to the tracking source output of the spectrum analyzer.
- **OUT**: Signal output terminal. It is used to connect to the RF input terminal of the spectrum analyzer.
- **DUT**: It is used to connect to the device under test.

Measurement Connection

The connection method between the UT-RB60 and the spectrum analyzer is shown in the figure on the right.



- **Connection to the Spectrum Analyzer**:
  Use two double N (male) adapters to connect the spectrum analyzer's tracking source output to the IN port of the VSWR bridge and the RF input of the spectrum analyzer to the OUT port of the VSWR bridge.
- **Connection to the Device Under Test (DUT)**:
  When connecting to the DUT, use as few cables or adapters as possible to avoid introducing additional reflections.

Application

- Measurement of S11-related parameters for passive devices such as filters, amplifiers, and mixers.
- Measurement of antenna frequency and Voltage Standing Wave Ratio (VSWR).

PN:110401113055X

Technical Specification

Frequency				
Bandpass frequency range	1 MHz to 6 GHz			
Port				
Porty type	N (Female) adapter			
Adapter	Double N (Male) adapter			
Port and adapter impedance	50Ω			
Insertion Loss				
IN to DUT	≤4.5 dB(Typical value)			
Directivity				
Frequency range	1MHz to 5MHz	5MHz to 3.3GHz	3.3GHz to 4.5GHz	4.5GHz to 6GHz
Directivity	15(Typical value)	24(Typical value)	18(Typical value)	15(Typical value)
Input Power				
Maximum input power	+27 dBm(0.5W)			
General Specification				
Operating temperature	-40°C to +70°C			
Storage temperature	-55°C to +85°C			
Material	Aluminium alloy			
Appearance	Sandblasting,Original color,electric conduction			
Dimension	112mm x 61mm x 22mm (Width x Height x Length)			
Weight	0.15kg			

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