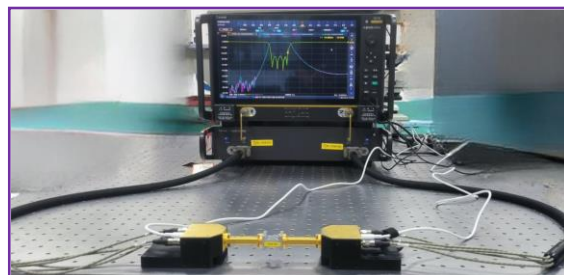


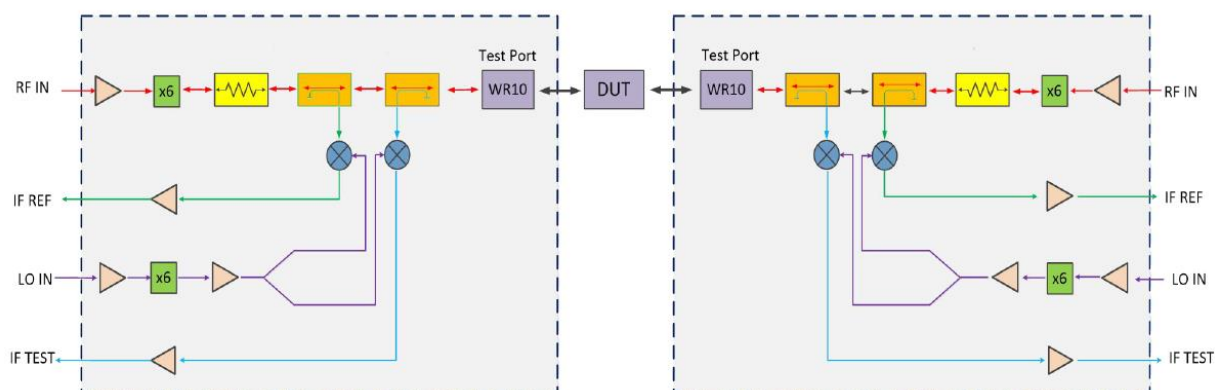
Extremely Compact THz VNA Extension Module

Product Features

- Full Band: 75-110GHz
- Output Power: -3dBm typical
- System Dynamic Range:>110dB
- Compatible with R&S / Keysight / Ceyear VNA
- Extremely small size



Block Diagram



Electrical Specs:

Parameter	Minimum	Typical	Maximum
System Operating Frequency, GHz	75		110
Test Port Output Power, dBm	-6	-3	0
System Dynamic Range, dBc		110	
Reflection & Transmission Tracking, Magnitude, dB			± 0.1
Reflection & Transmission Tracking, Phase, deg			± 2.5
Residual Directivity (with system error correction), dB	35		
Load Match (with system error correction), dB		40	
IF Frequency Range, MHz	1		1000
RF/LO System Input Frequency, GHz	12.5		18.4
RF/LO System Input Power, dBm	1	3	6
RF multiplier factor		6	

Measured Performance:

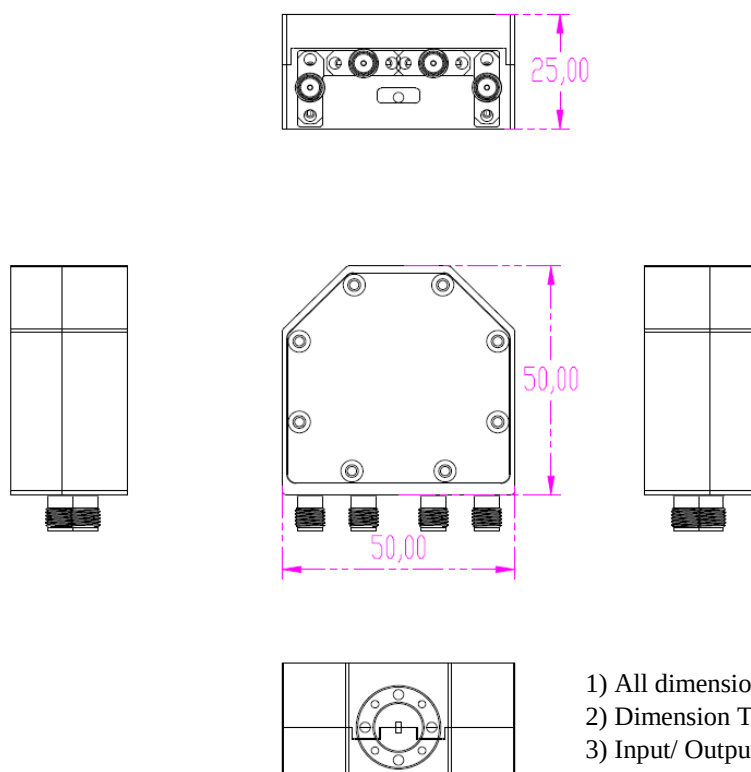


QS-1000TRs connection test with R&S VNA

Mechanical Specs:

Item	Specification
Test Port Interface, Test Port	WR-10 Waveguide with W/UG-387/U-M Flange
RF System Input Interface, RF	SMA-Female
LO System Input Interface, LO	SMA-Female
Test IF System Output Interface, IF TEST	SMA-Female
Ref IF System Output Interface, IF REF	SMA-Female
DC Power Supply, DC Input	+5V adapter Type -C
Size (L×W×H)	50mm×50mm×25mm

Mechanical Outline:



- 1) All dimensions are in mm;
- 2) Dimension Tolerance: $\pm 0.1\text{mm}$;
- 3) Input/ Output interface: UG-387/U

Package:



Wooden box size: 33*24*8cm

Including:

- 2× VNA Extension Module;
- 1× TRL Short calibration parts;
- 1× TRL Line calibration parts;
- 1× Power adapter;
- 2 ×Type-C power cables;
- 1×screwdriver;
- 1× L-shaped.

Notes:

1. Datasheet may be changed according to update of Raw materials , process, and so on.
2. This data is the typical performance for the reference.