泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
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W–Band VNA Frequency Extender

75-110GHz/WR-10

Model: TLVE-75110-10-S1

TLVE-75110-10-S1 frequency extenders are a dedicated Test & Measurement solution for extending the range of your Vector Network Analyzer (VNA) to 75-110 GHz.

Features:

- Frequency range: 75-110GHz
- Port Output Power (No Attenuation): 10dBm Typ
- Dynamic Range @10Hz BW: 110dB Typ
- Unconditional stability

Applications:

- VNA Frequency Extension
- Antenna measurements
- Material characterisation

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	75		110	GHz
Test Port Output Power		10		dBm
Test Port Input Power (Damage)			20	dBm
Output Power Attenuation (Option:Variable attenuators)	0		30	dB
Dynamic Range @10Hz BW	100	110		dBc
Directivity		30		dB
RF Input Frequency	12..5		18.33	GHz
RF Input Power	3	5	7	dBm
RF Multiplication Factor		6		
LO Input Frequency	12.5		18.33	GHz
LO Input Power	3	5	7	dBm
LO Multiplication Factor		6		
IF Frequency Range	1		1000	MHz
Amplitude stability@300 Hz BW		±0.1		dB
Phase Stability@300Hz BW		±1		°

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Mechanical Specifications:

Parameter	Value
RF/LO Input Connector	SMA Female
MEA/REF IF Output Connector	SMA Female
Test Port Connector	WR-10/UG-387/U
Power Supply Pin	FGG 0B 4 Core
Size	185*81*46.2mm

Absolute Maximum Ratings :

Parameter	Value	Units
Test Port Input Power	+20	dBm
RF/LO Port Damage Level	+10	dBm
Supply Bias Voltage	+240 V AC	
ESD sensitivity (HBm)	Class 0, passed 150V	

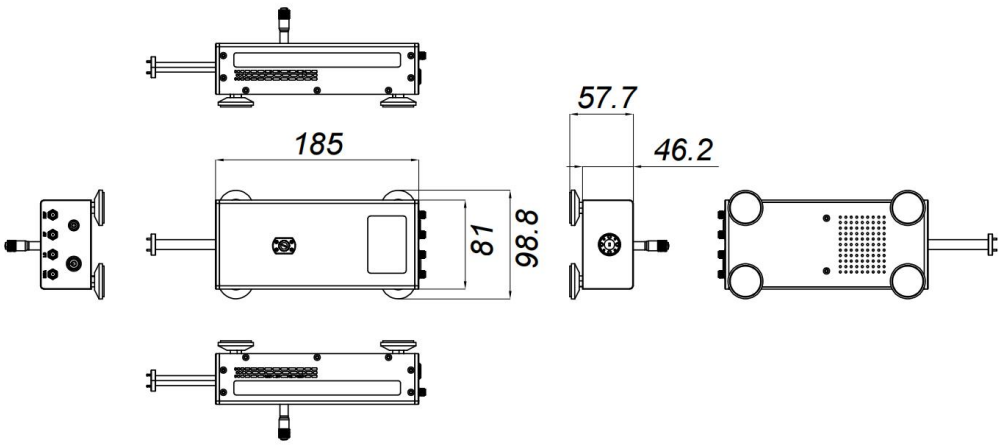
Envrionmental And Physical Characteristics:

Description	Parameter	Units
Operating Temerature	0 to +45	℃
Storage Temerature	-55 to +125	℃
Material	Al	
Finish	Gray spray paint	

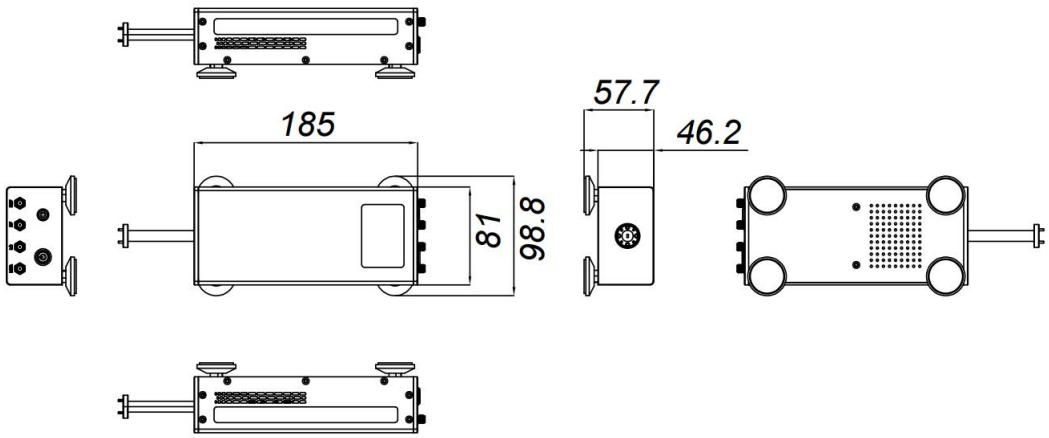
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Outline Drawing:

Unit:mm; Tolerance:±0.1mm

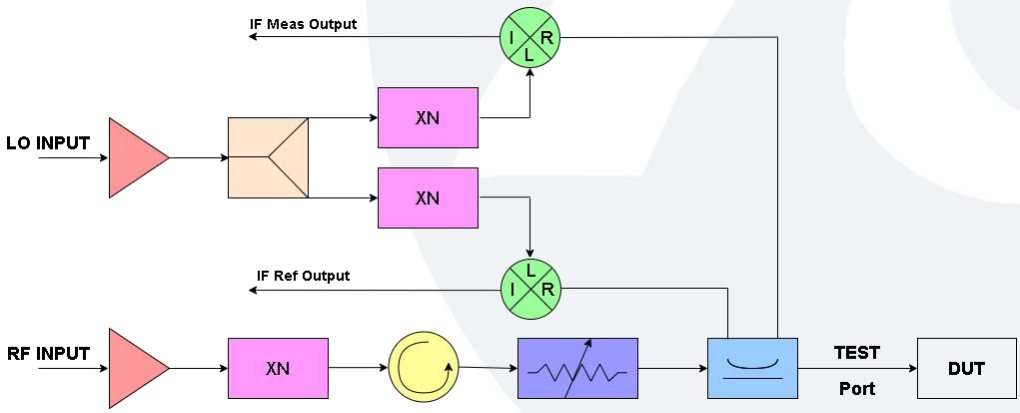


TLVE-75110-10-S1-A



TLVE-75110-10-S1

Block Diagrams:



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Ordering Information:

Part Number	Description	Revision
TLVE-75110-10-S1	W-band VNA Frequency Extender, 75-110 GHz, Output Power: 10dBm typ; Dynamic Range: 110dB typ; Magnitude Stability @300Hz BW: ±0.1dB, Phase Stability @300Hz BW: ±1°	Rev.1.0
TLVE-75110-10-S1-A	W-band VNA Frequency Extender, 75-110GHz, Output Power: 10dBm typ; Dynamic Range: 110dB typ; Magnitude Stability @300Hz BW: ±0.1dB, Phase Stability @300Hz BW: ±1°,with Micrometer driven variable attenuators	Rev.1.0

Components Included:

Part Number	Description	Quantity
S1-SMAMSMAM-1.2m	COAXIAL CABLE ASSEMBLY	4 PCS
TLACTDC-22012	AC-to-DC Power Adapter	1 PCS
Calibration kit	WR10	1 Pcs

Notes:

1. Dimensions and specifications may be changed without prior notice.
2. Standard Warranty:three years.