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-A/TLVE-75110-10

TLVE-75110-10 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: 75-110 GHz
- 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		dB
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 @300Hz BW		±0.1		dB
Phase Stability @300Hz BW		±2.5		°

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Mechanical Specifications:

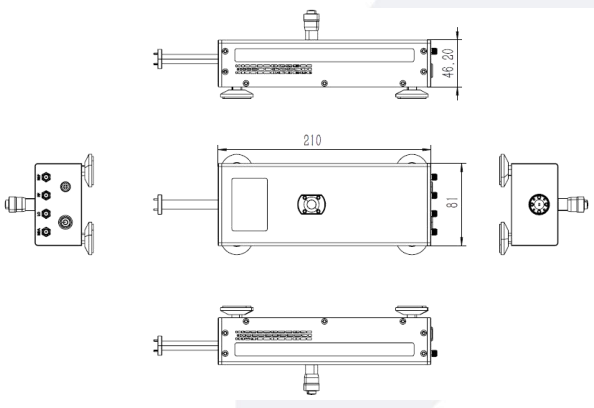
Parameter	Value
RF/LO Input Connector	SMA Female
MEA/REF IF Output Connector	SMA Female
Test Port Connector	WR-10/UG-387/U
Power Supply Pin	FGG 0B 4 Core
Size	210*81*46.2mm

Absolute Maximum Ratings :

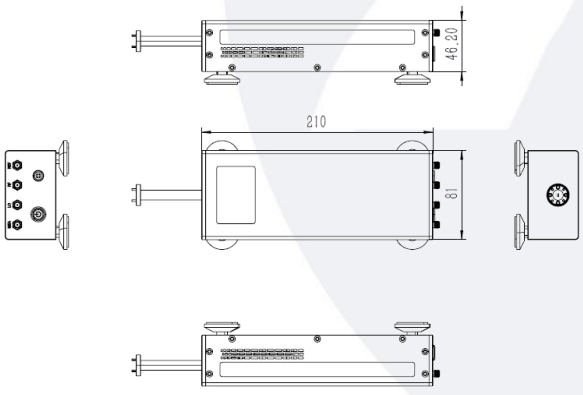
Parameter	Value	Units
Test Port Input Power	+20	dBm
RF/LO Port Damage Level	+10	dBm
Supply Bias Voltage	+240 V AC	
ESD sensitivity (HBm)	Class 0, passed 150V	

Outline Drawing:

Unit:mm; Tolerance:±0.1mm



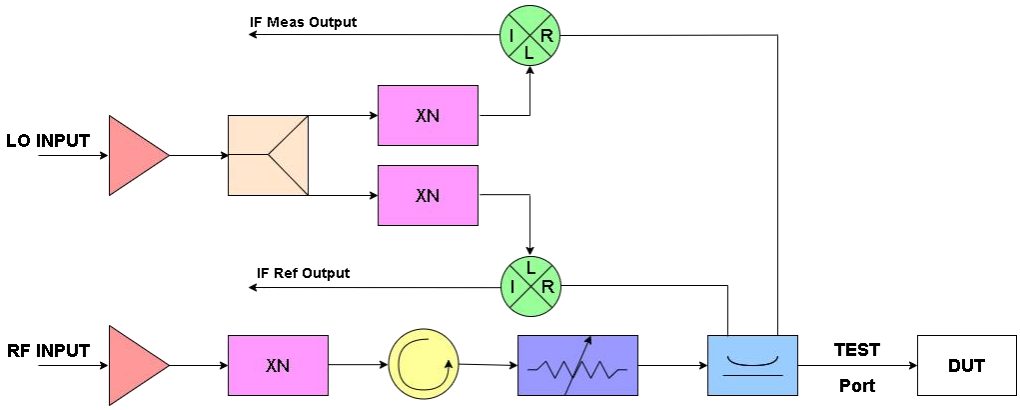
TLVE-75110-10-A



TLVE-75110-10

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Block Diagrams:



Envrionmental And Physical Characteristics:

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

Ordering Information:

Part Number	Description	Revision
TLVE-75110-10	W-band VNA Frequency Extender, 75-110 GHz, Output Power:10dBm typ., Dynamic Range:110 dB typ.,Magnitude Stability @300Hz BW:±0.1dB,Phase Stability @300Hz BW:±2.5°	Rev.1.1
TLVE-75110-10-A	W-band VNA Frequency Extender, 75-110 GHz, Output Power:10dBm typ., Dynamic Range:110 dB typ.,Magnitude Stability @300Hz BW:±0.1dB,Phase Stability @300Hz BW:±2.5°,with Micrometer driven variable attenuators	Rev.1.1

Components Included:

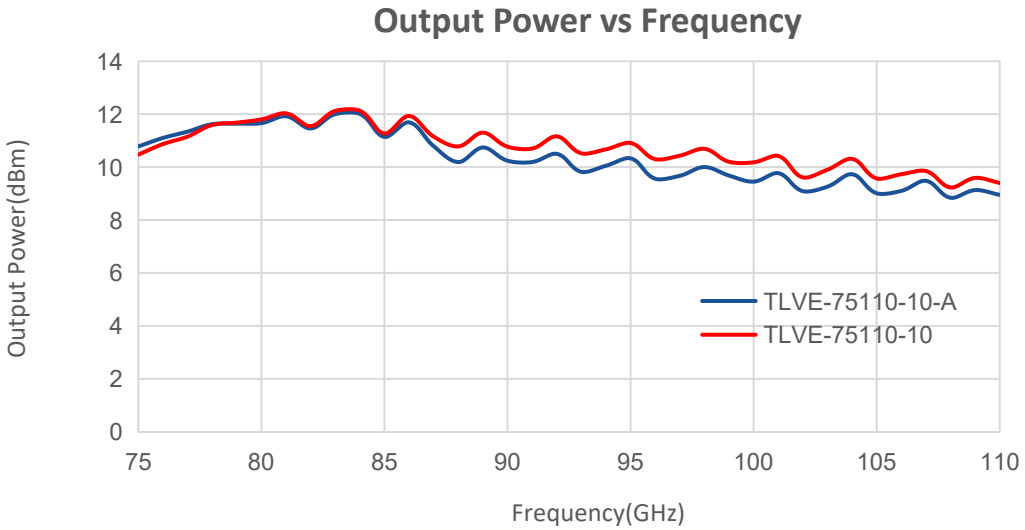
Part Number	Desciption	Quantity
S1-SMAMSMAM-1.2m	COAXIAL CABLE ASSEMBLY	4 PCS
TLACTDC-22012	AC-to-DC Power Adapter	1 PCS

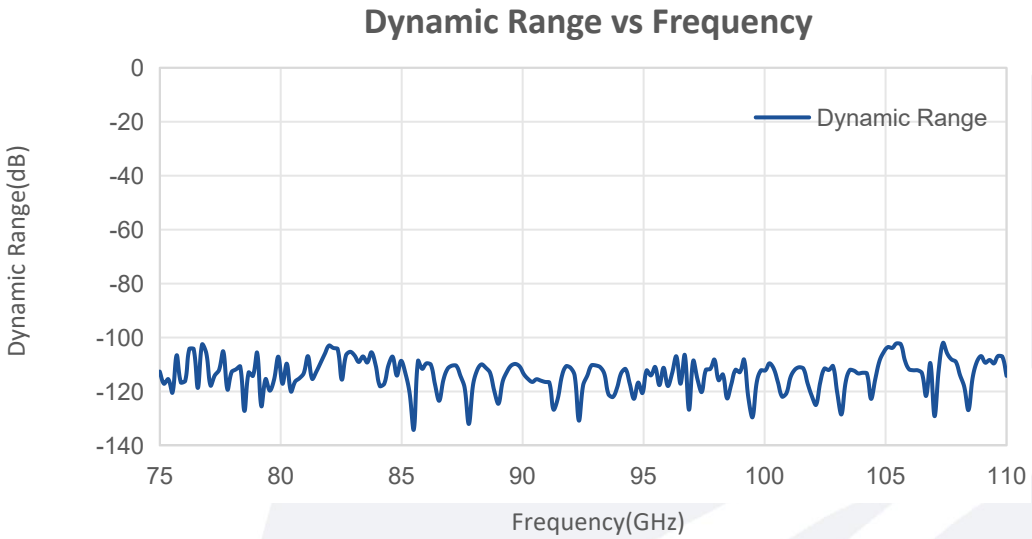
Notes:

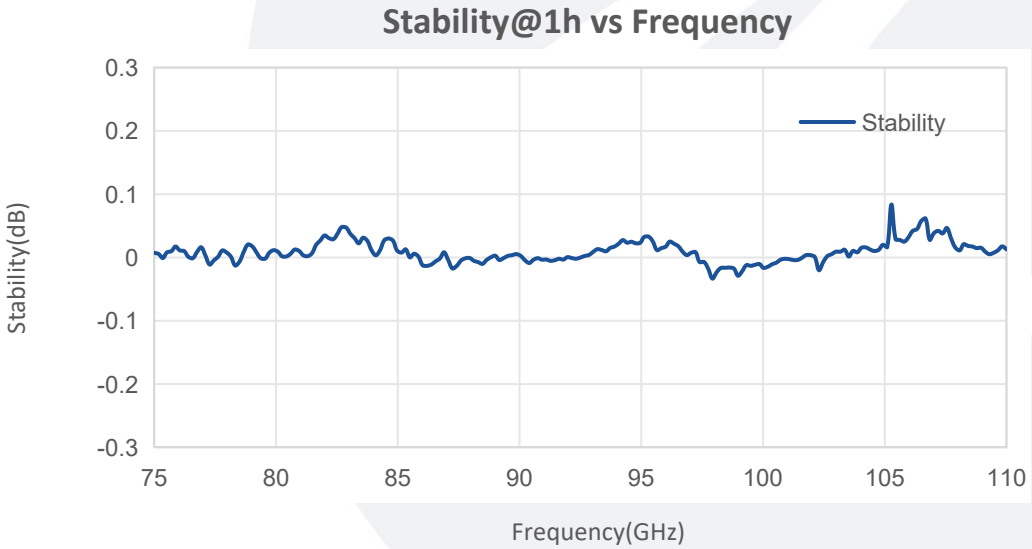
1. Dimensions and specifications may be changed without prior notice.
2. Standard Warranty:three years.

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Typical Performance Data:



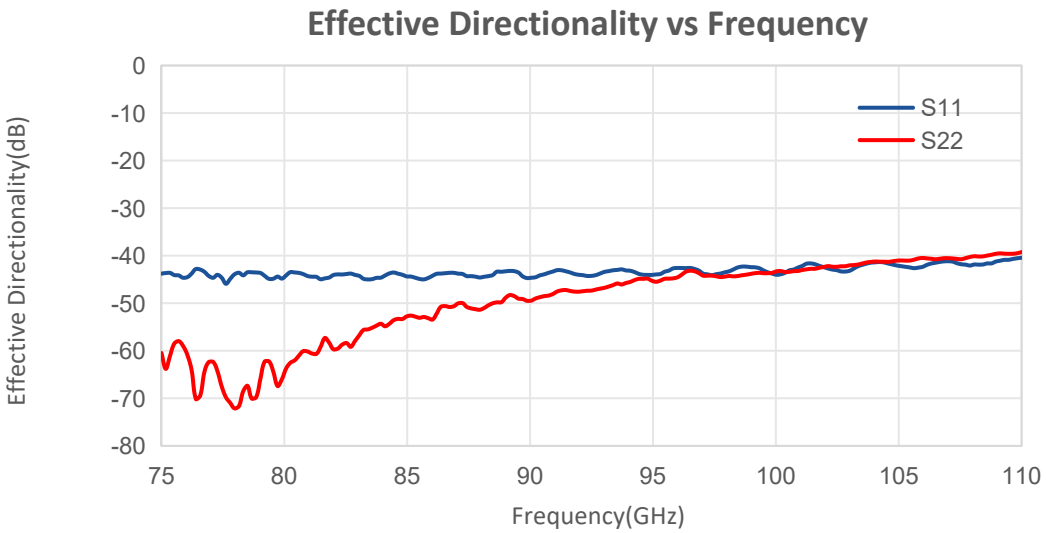


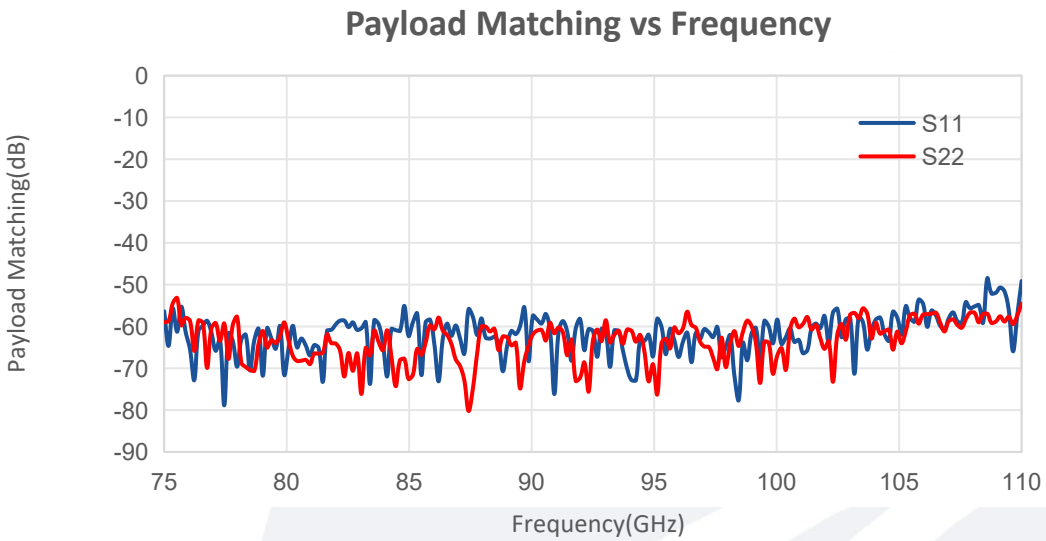


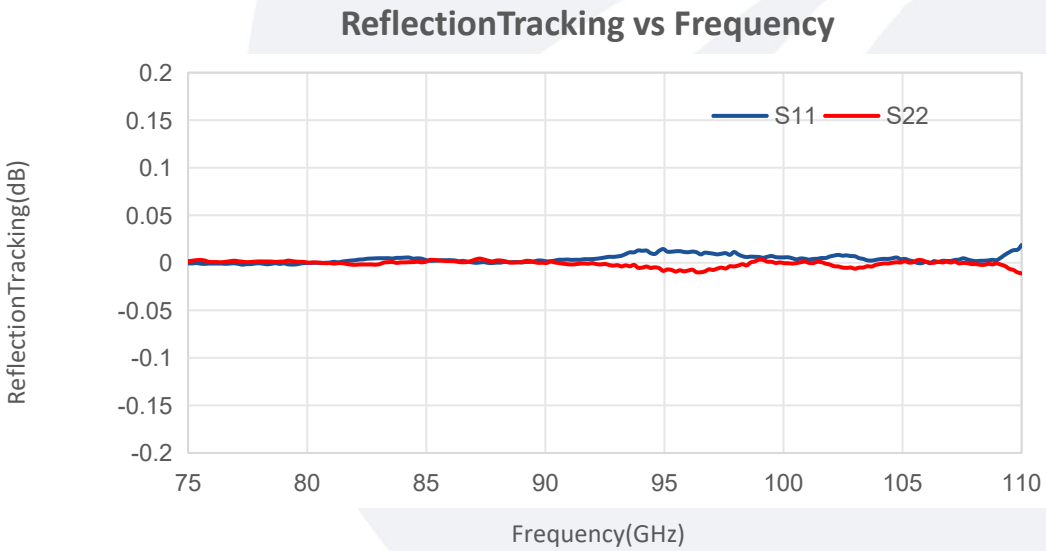
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

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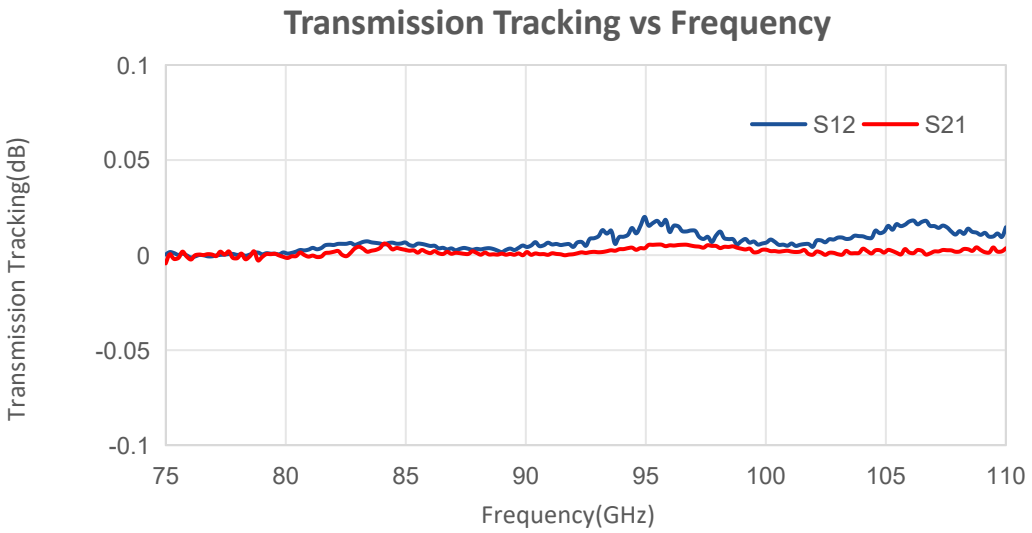




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