泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

F–Band VNA Frequency Extender

90-140GHz/WR-08

Model: TLVE-90140-N3-8

TLVE-90140-N3-8 frequency extenders are a dedicated Test & Measurement solution for extending the range of your Vector Network Analyzer (VNA) to 90-140 GHz.

Features:

- Frequency range: 90-140GHz
- Port Output Power (No Attenuation): -3dBm Typ
- Dynamic Range @10Hz BW: 100dB Min
- Unconditional stability

Applications:

- VNA Frequency Extension
- Antenna measurements
- Material characterisation

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	90		140	GHz
Test Port Output Power		-3		dBm
Test Port Input Power (Damage)			20	dBm
Output Power Attenuation (Option:Variable attenuators)	0		30	dB
Dynamic Range @10Hz BW	100			dB
Directivity		30		dB
RF Input Frequency	11.25		17.5	GHz
RF Input Power	3	5	7	dBm
RF Multiplication Factor		8		
LO Input Frequency	11.25		17.5	GHz
LO Input Power	3	5	7	dBm
LO Multiplication Factor		8		
IF Frequency Range	1		1000	MHz
Amplitude stability@300 Hz BW		±0.15		dB
Phase Stability@300Hz BW		±1.5		°

Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

Mechanical Specifications:

Parameter	Value
RF/LO Input Connector	SMA Female
MEA/REF IF Output Connector	SMA Female
Test Port Connector	WR-08/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	

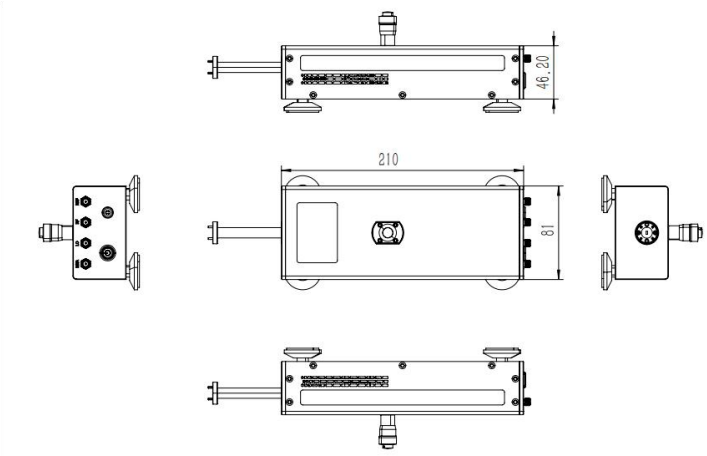
Envrionmental And Physical Characteristics:

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

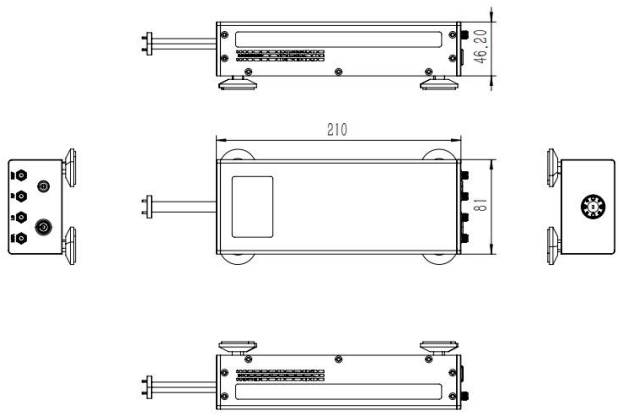
Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

Outline Drawing:

Unit:mm; Tolerance:±0.1mm

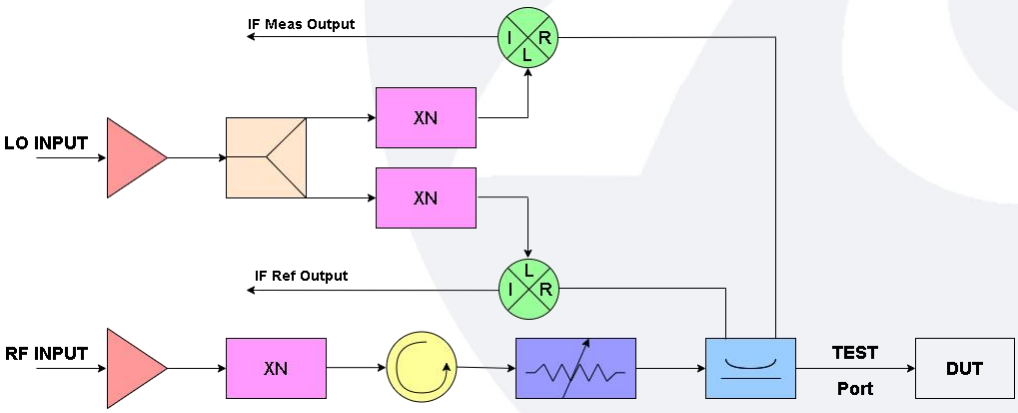


TLVE-90140-N3-8-A



TLVE-90140-N3-8

Block Diagrams:



Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

Ordering Information:

Part Number	Description	Revision
TLVE-90140-N3-8	F-band VNA Frequency Extender, 90-140 GHz, Output Power: -3dBm typ; Dynamic Range: 100dB Min; Magnitude Stability @300Hz BW: ±0.15dB, Phase Stability @300Hz BW: ±1.5°	Rev.1.0
TLVE-90140-N3-8-A	F-band VNA Frequency Extender, 90-140 GHz, Output Power: -3dBm typ; Dynamic Range: 100dB Min; Magnitude Stability @300Hz BW: ±0.15dB, Phase Stability @300Hz BW: ±1.5°,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

Notes:

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