泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
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VNA Frequency Extender

260-400GHz/WR-2.8

Model: TLVE-260400-N8

TLVE-260400-N8 frequency extenders are a dedicated Test & Measurement solution for extending the range of your Vector Network Analyzer (VNA) to 260-400 GHz.

Features:

- Frequency range: 260-400 GHz
- Port Output Power (No Attenuation): -8 dBm Typ
- Dynamic Range @ 10 Hz BW: 80dB Min
- Unconditional stability

Applications:

- VNA Frequency Extension
- Antenna measurements
- Material characterisation

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	260		400	GHz
Test Port Output Power		-8		dBm
Test Port Input Power (Damage)			20	dBm
Output Power Attenuation (Option:Variable attenuators)	0		30	dB
Dynamic Range @10Hz BW	80			dB
RF Input Frequency	10.83		16.67	GHz
RF Input Power	3	5	7	dBm
RF Multiplication Factor		24		
LO Input Frequency	10.83		16.67	GHz
LO Input Power	3	5	7	dBm
LO Multiplication Factor		24		
IF Frequency Range	1		1000	MHz
Effective Directionality @10Hz BW	20			dB
Payload Matching @10Hz BW	20			dB
ReflectionTracking@10Hz BW		±0.3		dB
Transmission Tracking@10Hz BW		±0.3		dB

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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-2.8/UG-387/U
Power Supply Pin	FGG 0B 4 Core
Size	230*93.2*68mm

Absolute Maximum Ratings :

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

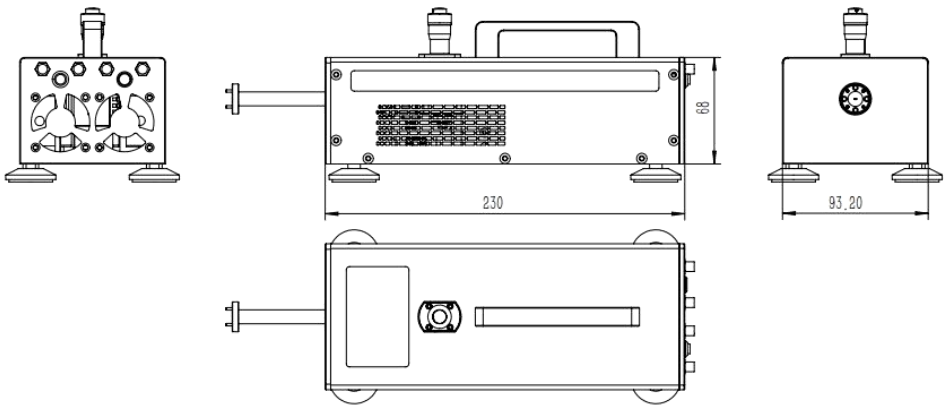
Envrionmental And Physical Characteristics:

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

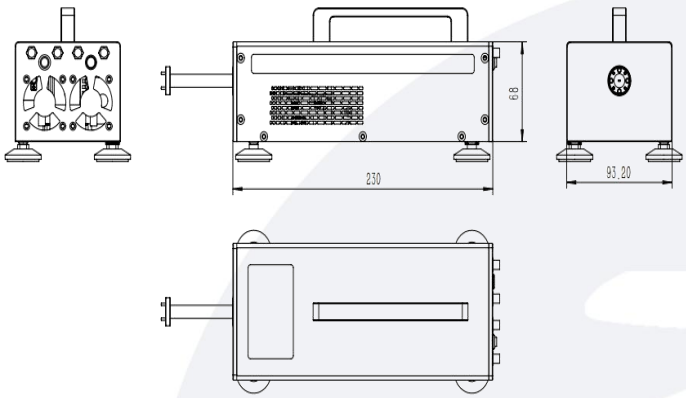
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Outline Drawing:

Unit:mm; Tolerance:±0.1mm

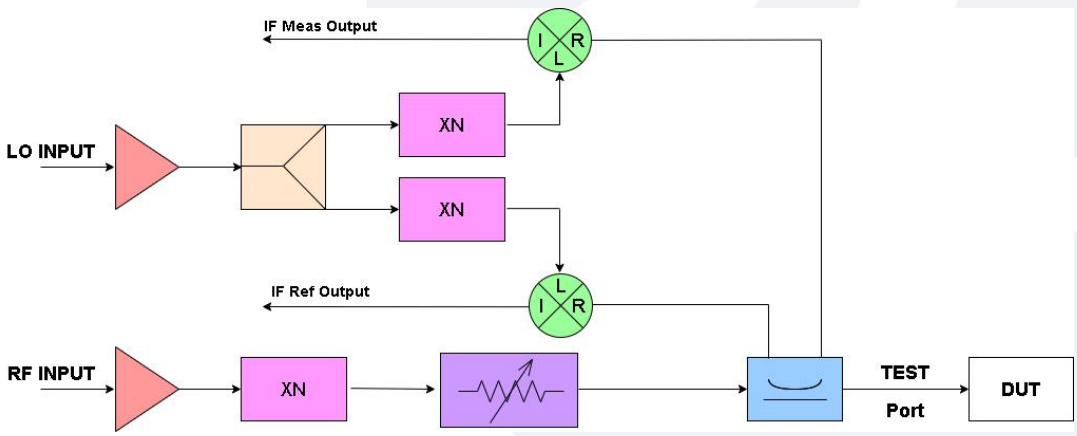


TLVE-260400-N8-A



TLVE-260400-N8

Block Diagrams:



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Ordering Information:

Part Number	Description	Revision
TLVE-260400-N8	VNA Frequency Extender, 260-400 GHz, Output Power:-8dBm Typ., Dynamic Range:80dB Min	Rev.1.1
TLVE-260400-N8-A	VNA Frequency Extender, 260-400 GHz, Output Power:-8 dBm Typ., Dynamic Range:80dB Min ,with Micrometer driven variable attenuators	Rev.1.1

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	Connector： WR-2.8/UG-387/U	1 PCS

Notes:

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