Suzhou Talent Microwave,Inc
sales@talentmw.com
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U–Band VNA Frequency Extender

40-67GHz/1.85mm Female

Model: TLVE-4067-13

TLVE-4067-13 frequency extenders are a dedicated Test & Measurement solution for extending the range of your Vector Network Analyzer (VNA) to 40-67 GHz.

Features:

- Frequency range: 40-67GHz
- Port Output Power (No Attenuation): 13dBm Typ
- Dynamic Range @10Hz BW: 120dB Typ
- Unconditional stability

Applications:

- VNA Frequency Extension
- Antenna measurements
- Material characterisation

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	40		67	GHz
Test Port Output Power		13		dBm
Test Port Input Power (Damage)			20	dB
Dynamic Range @10Hz BW		120		dB
RF Input Frequency	10		16.75	GHz
RF Input Power	3	5	7	dBm
RF Multiplication Factor		4		
LO Input Frequency	10		16.75	GHz
LO Input Power	3	5	7	dBm
LO Multiplication Factor		4		
IF Frequency Range	1		1000	MHz
Amplitude Stability @300Hz BW		±0.1		dB
Phase Stability @300Hz BW		±2		°

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Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Effective Directionality@10Hz BW	35			dB
Payload Matching@10Hz BW	35			dB
ReflectionTracking@10Hz BW		±0.1		dB
Transmission Tracking@10Hz BW		±0.05		dB

Mechanical Specifications:

Parameter	Value
RF/LO Input Connector	SMA Female
MEA/REF IF Output Connector	SMA Female
Test Port Connector	1.85mm Female
Power Supply Pin	FGG 0B 4 Core
Size	242*81*46.2mm

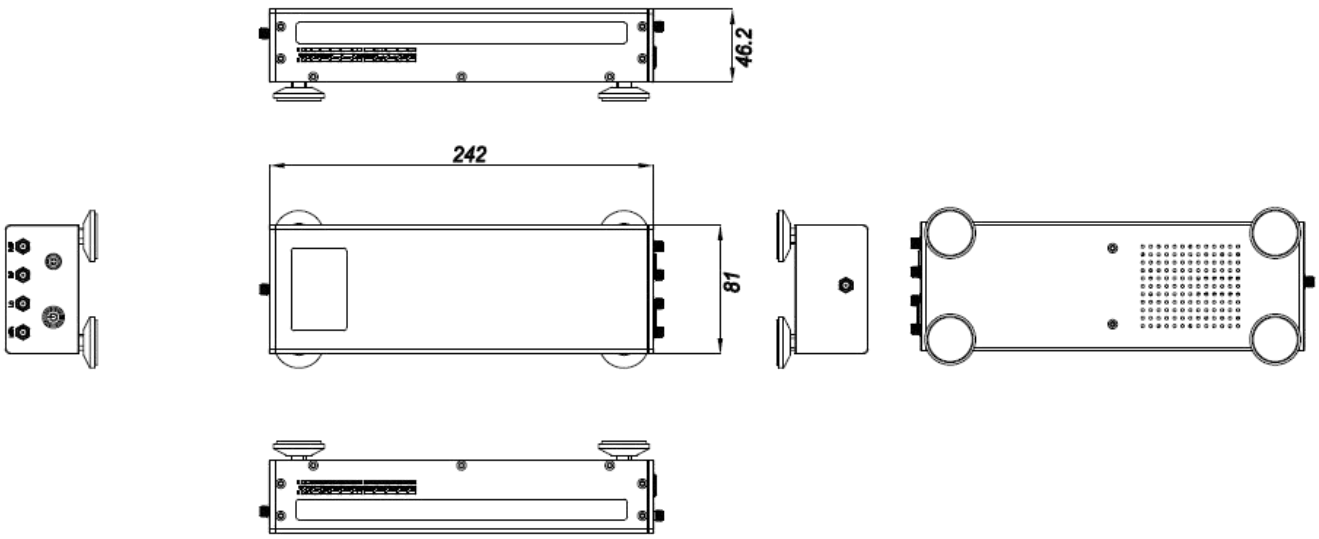
Absolute Maximum Ratings :

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	

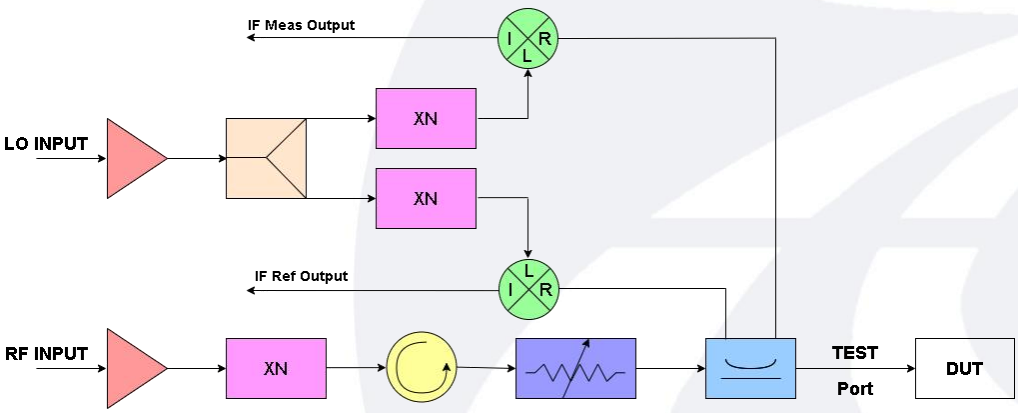
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Outline Drawing:

Unit:mm; Tolerance:±0.1mm



Block Diagrams:



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Envrionmental And Physical Characteristics:

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

Ordering Information:

Part Number	Description	Revision
TLVE-4067-13	U-band VNA Frequency Extender, 40-67GHz, Output Power:13dBm Typ., Dynamic Range: 120dB Typ, Magnitude Stability @300 Hz BW:±0.1dB,Phase Stability @300 Hz BW:±2°	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	WR15	1PCS

Notes:

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