泰莱微波
Talent Microwave

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

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

电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range	40		67	GHz
测试端口输出功率 Test Port Output Power		13		dBm
测试端口输入功率 Test Port Input Power (Damage)			20	dB
动态范围 Dynamic Range @10Hz BW		120		dB
射频输入频率 RF Input Frequency	10		16.75	GHz
射频输入功率 RF Input Power	3	5	7	dBm
RF倍频次数 RF Multiplication Factor		4		
本振输入频率 LO Input Frequency	10		16.75	GHz
本振输入功率 LO Input Power	3	5	7	dBm
LO倍频次数 LO Multiplication Factor		4		
中频频率范围 IF Frequency Range	1		1000	MHz
幅度稳定度 Amplitude Stability @300Hz BW		±0.1		dB
相位稳定度 Phase Stability @300Hz BW		±2		°

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电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
有效方向性 Effective Directionality@10Hz BW	35			dB
有效负载匹配 Payload Matching@10Hz BW	35			dB
反射追踪 ReflectionTracking@10Hz BW		±0.1		dB
传输追踪 Transmission Tracking@10Hz BW		±0.05		dB

机械特性 Mechanical Specifications:

参数 Parameter	指标 Value
RF/LO输入接口 RF/LO Input Connector	SMA Female
MEA/REF IF输出接口 MEA/REF IF Output Connector	SMA Female
测试端口 Test Port Connector	1.85mm Female
供电 Power Supply Pin	FGG 0B 4 Core
尺寸 Size	242*81*46.2mm

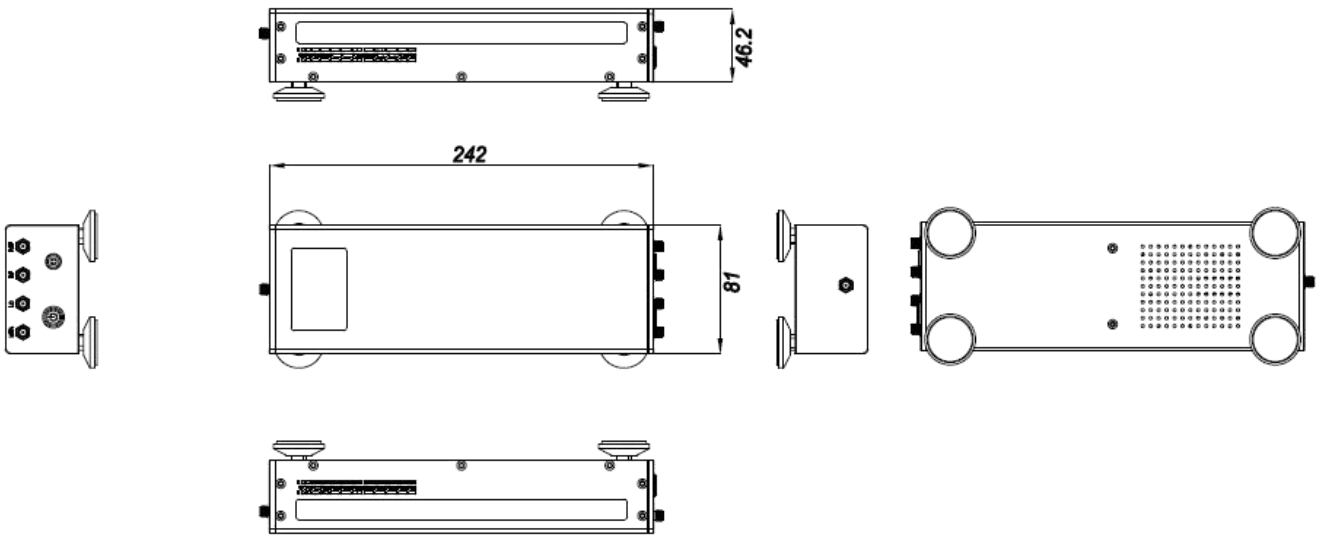
绝对最大值 Absolute Maximum Ratings :

参数 Parameter	指标 Value	单位 Units
测试端输入功率 Test Port Input Power	+20	dBm
RF/LO端损坏等级 RF/LO Port Damage Level	+10	dBm
供电偏置 Supply Bias Voltage	+240 V AC	
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V	

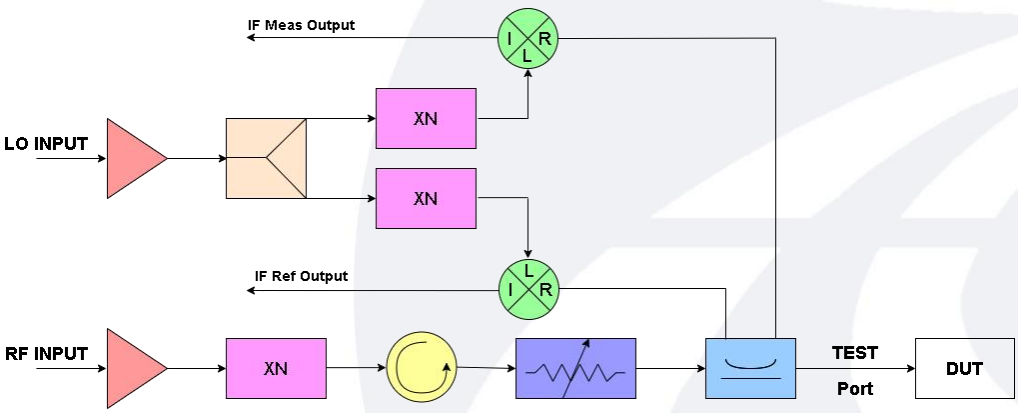
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外形图 Outline Drawing:

Unit:mm; Tolerance:±0.1mm



原理框图 Block Diagrams:



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环境和物理特性 Envrionmental And Physical

参数 Parameter	指标 Value	单位 Units
操作温度 Operating Temerature	0 to +45	℃
存储温度 Storage Temerature	-55 to +125	℃
材质 Material	Aluminum	
表面处理 Finish	Gray spray paint	

订货信息 Ordering Information:

标准型号 Part Number	描述 Description	版本号 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

随货配件 Components Included:

标准型号 Part Number	描述 Description	数量 Quantity
S1-SMAMSMAM-1.2m	COAXIAL CABLE ASSEMBLY	4 PCS
TLACTDC-22012	AC-to-DC Power Adapter	2 PCS
Calibration kit	WR15	1PCS

Notes:

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