

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:

- Ultra Wide Band: 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

电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range	260		400	GHz
测试端口输出功率 Test Port Output Power		-8		dBm
测试端口输入功率 Test Port Input Power (Damage)			20	dBm
输出功率衰减 Output Power Attenuation (Option:Variable attenuators)	0		3	dB
动态范围 Dynamic Range @ 10Hz BW	80			dB
射频输入频率 RF Input Frequency	10.83		16.67	GHz
射频输入功率 RF Input Power	3	5	7	dBm
RF倍频次数 RF Multiplication Factor		24		
本振输入频率 LO Input Frequency	10.83		16.67	GHz
本振输入功率 LO Input Power	3	5	7	dBm
LO倍频次数 LO Multiplication Factor		24		
中频频率范围 IF Frequency Range	1		1000	MHz
有效方向性 Effective Directionality@ 10Hz BW	20			dB
有效负载匹配 Payload Matching@10Hz BW	20			dB
反射跟踪 ReflectionTracking@10Hz BW		±0.3		dB
传输跟踪 Transmission Tracking@10Hz BW		±0.3		dB

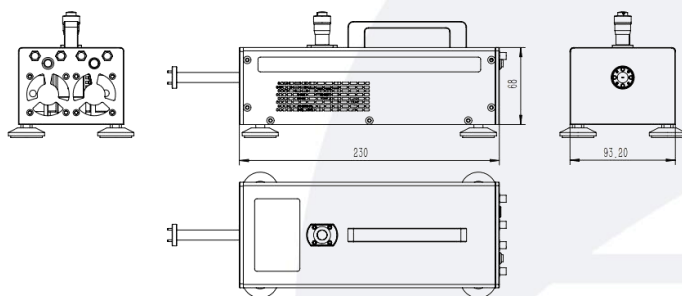
机械特性 Mechanical Specifications:

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

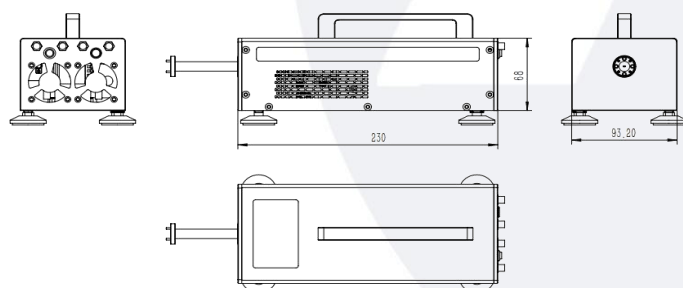
绝对最大值 Absolute Maximum Ratings :

描述 Description	参数 Parameter	单位 Units
测试端输入功率 Test Port Input Power	+10	dBm
供电偏置 Supply Bias Voltage	+240 V AC	
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V	

外形图 Outline Drawing: Unit:mm

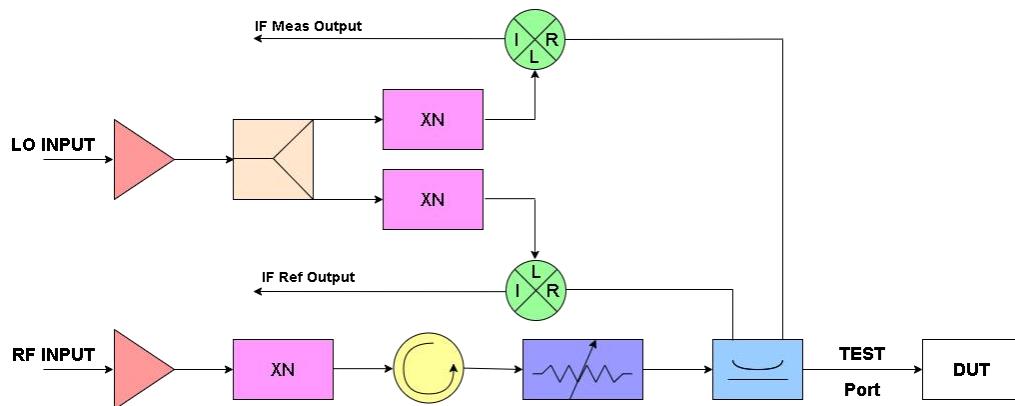


TLVE-260400-N8-A



TLVE-260400-N8

原理框图 Block Diagrams:



环境和物理特性 Envrionmental And Physical

描述 Description	参数 Parameter	单位 Units
操作温度 Operating Temperature	0 To +45	°C
存储温度 Storage Temperature	-55 to +125	°C
材质 Material	Al	
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-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

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	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.