

E-Band VNA Frequency Extender

60-90GHz /WR-12

Model: TLVE-6090-13-A/TLVE-6090-13

TLVE-6090-13 frequency extenders are a dedicated Test & Measurement solution for extending the range of your Vector Network Analyzer (VNA) to 60-90 GHz.

Features:

- Ultra Wide Band: 60-90 GHz
- Port Output Power (No Attenuation): 9 dBm Typ
- Dynamic Range @ 10 Hz BW: 110dB 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	60		90	GHz
测试端口输出功率 Test Port Output Power		9		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		30	dB
动态范围 Dynamic Range @ 10Hz BW	100	110		dB
方向性 Directivity		30		dB
射频输入频率 RF Input Frequency	10		15	GHz
射频输入功率 RF Input Power	3	5	7	dBm
RF倍频次数 RF Multiplication Factor		6		
本振输入频率 LO Input Frequency	10		15	GHz
本振输入功率 LO Input Power	3	5	7	dBm
LO倍频次数 LO Multiplication Factor		6		
中频频率范围 IF Frequency Range	1		1000	MHz
幅度稳定度 Amplitude stability @300 Hz BW		±0.1		dB
相位稳定度 Phase Stability @300 Hz BW		±2.5		°

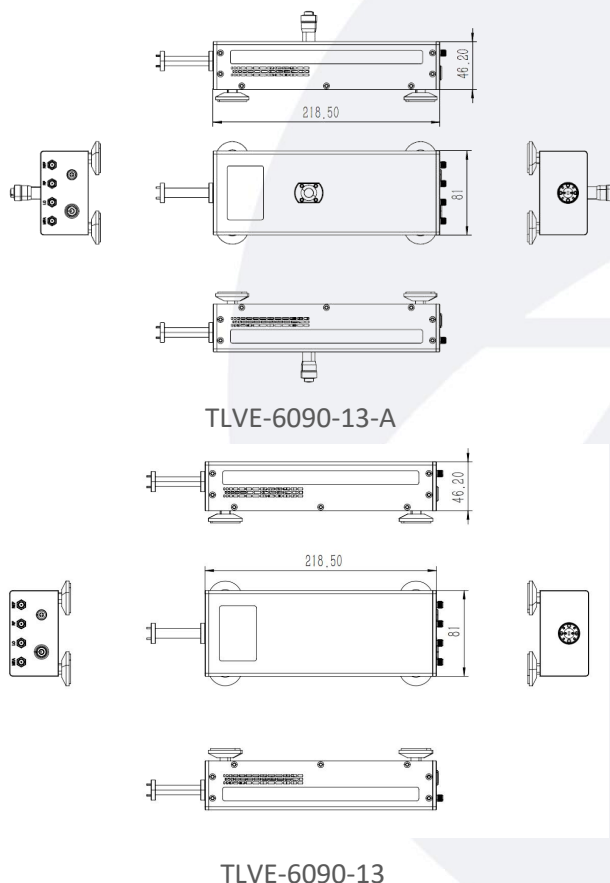
机械特性 Mechanical Specifications:

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-12/UG-387/U
供电 Power Supply Pin	FGG 0B 4 Core
尺寸 Size	218.5*81*46.2mm

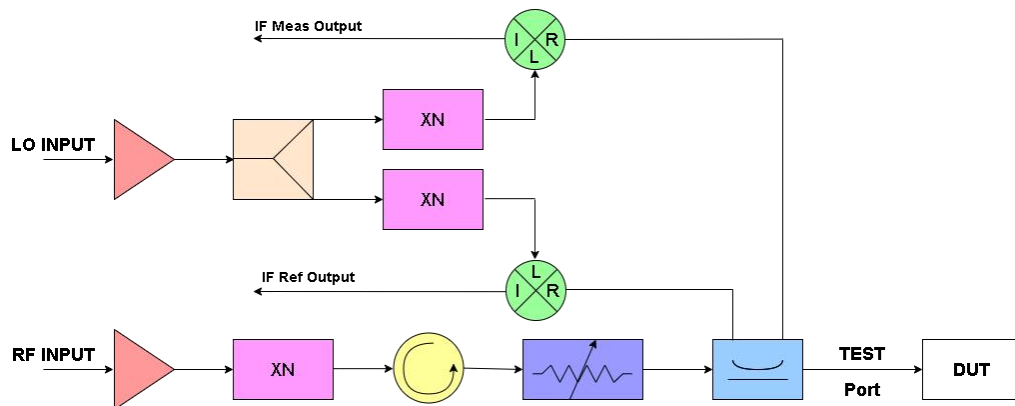
绝对最大值 Absolute Maximum Ratings :

描述 Description	参数 Parameter	单位 Units
测试端输入功率 Test Port Input Power	+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	

外形图 Outline Drawing: Unit:mm



原理框图 Block Diagrams:



环境和物理特性 Envriionmental 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-6090-13	E-band VNA Frequency Extender, 60-90 GHz, Output Power:9 dBm typ., Dynamic Range:110 dB typ.,Magnitude Stability @ 300 Hz BW:±0.1dB,Phase Stability @ 300 Hz BW:±2.5°	Rev.1.2
TLVE-6090-13-A	E-band VNA Frequency Extender, 60-90 GHz, Output Power:9 dBm typ., Dynamic Range:110 dB typ.,Magnitude Stability @ 300 Hz BW:±0.1dB,Phase Stability @ 300 Hz BW:±2.5°,with Micrometer driven variable attenuators	Rev.1.2

随货配件 Components Included:

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

Notes:

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