

VNA Frequency Extender

330-500GHz/WR-2.2

Model: TLVE-330500-N9

TLVE-330500-N9 frequency extenders are a dedicated Test & Measurement solution for extending the range of your Vector Network Analyzer (VNA) to 330-500 GHz.

Features:

- Frequency range: 330-500 GHz
- Port Output Power (No Attenuation): -9dBm 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	330		500	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	80	90		dB
射频输入频率 RF Input Frequency	9.16		13.88	GHz
射频输入功率 RF Input Power	3	5	7	dBm
RF倍频次数 RF Multiplication Factor		36		
本振输入频率 LO Input Frequency	13.75		20.83	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
幅度稳定性 Magnitude Stability@300Hz BW		±0.8		dB
相位稳定性 Phase Stability@300Hz BW		±10		°

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-2.2/UG-387/U
供电 Power Supply Pin	FGG 0B 4 Core
尺寸 Size	240*83*68mm

绝对最大值 Absolute Maximum Ratings :

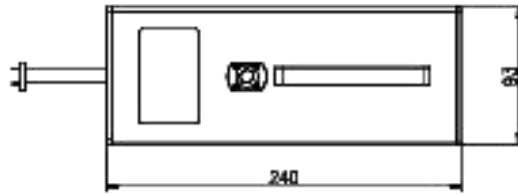
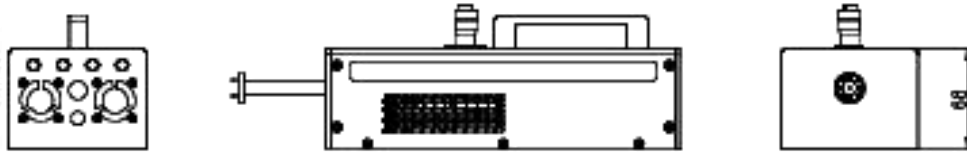
参数 Parameter	指标 Value	单位 Units
测试端输入功率 Test Port Input Power	+10	dBm
供电偏置 Supply Bias Voltage	+240 V AC	
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V	

环境和物理特性 Envronmental And Physical

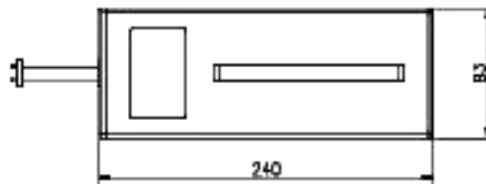
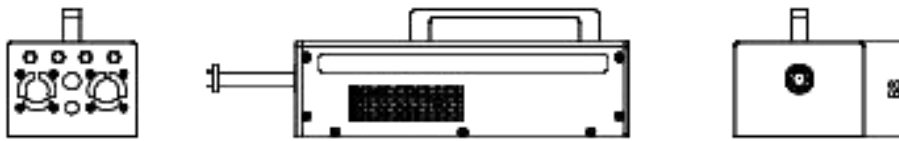
参数 Parameter	指标 Value	单位 Units
操作温度 Operating Temerature	0 to +45	℃
存储温度 Storage Temerature	-55 to +125	℃
材质 Material	Aluminum	
表面处理 Finish	Gray spray paint	

外形图 Outline Drawing:

Unit:mm; Tolerance:±0.1mm

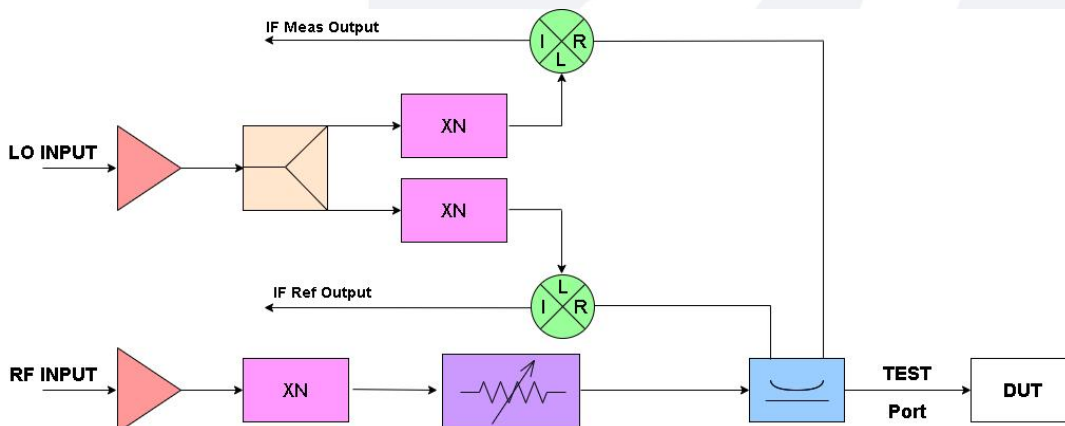


TLVE-330500-N9-A



TLVE-330500-N9

原理框图 Block Diagrams:



订货信息 Ordering Information:

标准型号 Part Number	描述 Description	版本号 Revision
TLVE-330500-N9	VNA Frequency Extender, 330-500GHz, Output Power:-9 dBm Typ., Dynamic Range:80dB Min	Rev.1.1
TLVE-330500-N9-A	VNA Frequency Extender, 330-500GHz, Output Power:-9 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.