

Model:TLVE-140220-N3

G-band VNA Frequency Extender 140-220 GHz,WR-05

Feature:

- Ultra Wide Band: 140-220 GHz
- Port Output Power (No Attenuation): -3dBm Typ
- Dynamic Range @ 10 Hz BW: 110dB Typ
- Unconditional stability

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	140		220	GHz
Port Output Power		-3		dBm
Input Power (Damage)			10	dBm
Output Power Attenuation (Option:Variable attenuators)	0		30	dB
Dynamic Range @10 Hz BW		110		dB
Directivity		20		dB
RF Input Frequency	11.66		18.33	GHz
RF Input Power	3	7	10	dBm
RF Multiplication Factor		12		
LO Input Frequency	11.66		18.33	GHz
LO Input Power	3	7	10	dBm
IF Frequency Range		12		MHz
Stability @300Hz BW		±0.3		dB
Phase Stability @300Hz BW		±6		°

机械特性 Mechanical Specifications:

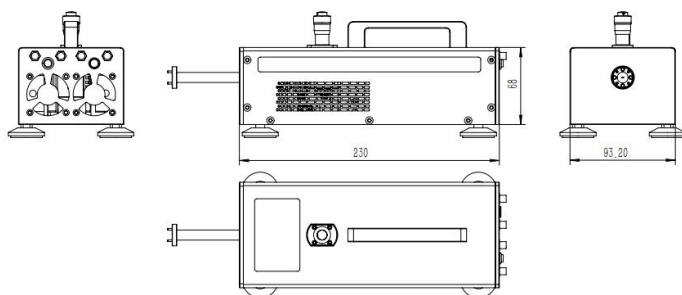
参数 Parameter	指标 Value
射频输入接口 RF Input Connector	SMA Female
本振输入接口 LO Input Connector	SMA Female
中频输出接口 IF Input Connector	SMA Female
射频输出接口 RF Output Connector	WR-05/UG-387
供电引脚 Power Supply Pin	FGG 0B 4 Core
尺寸 Size	230*93.2*68mm

Absolute Maximum Ratings:

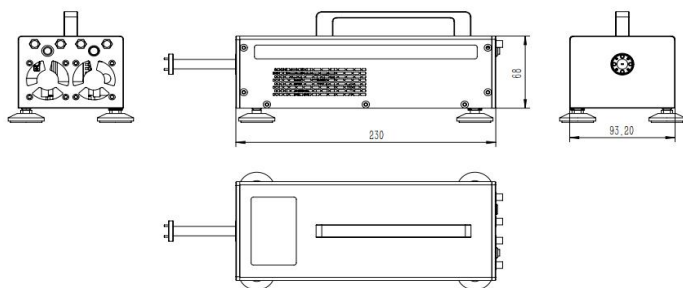
Parameter	Value
Supply Bias Voltage	240 V
RF Input Power	+10 dBm

Outline Drawing:

Unit: mm

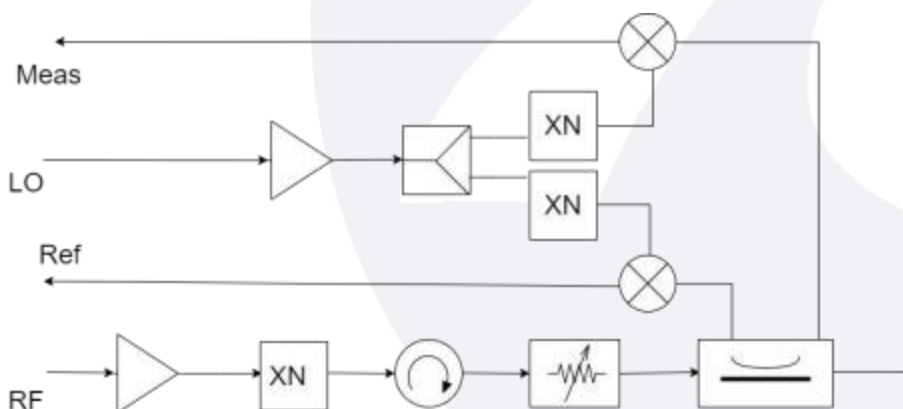


TLVE-140220-N3-A



TLVE-140220-N3

Block Diagrams:



Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	0		+50	°C
Non-operating Temperature	-45		+125	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Part Number	Description	Revision
TLVE-140220-N3	G-band VNA Frequency Extender, 140-220 GHz, Output Power:-3 dBm typ., Dynamic Range:110 dB typ.,Magnitude Stability @ 300 Hz BW:±0.3dB,Phase Stability @ 300 Hz BW:±6°	Rev.1.1
TLVE-140220-N3-A	G-band VNA Frequency Extender, 140-220 GHz, Output Power:-3 dBm typ., Dynamic Range:110 dB typ.,Magnitude Stability @ 300 Hz BW:±0.3dB,Phase Stability @ 300 Hz BW:±6°,with Micrometer driven variable attenuators	Rev.1.1

Components Included:

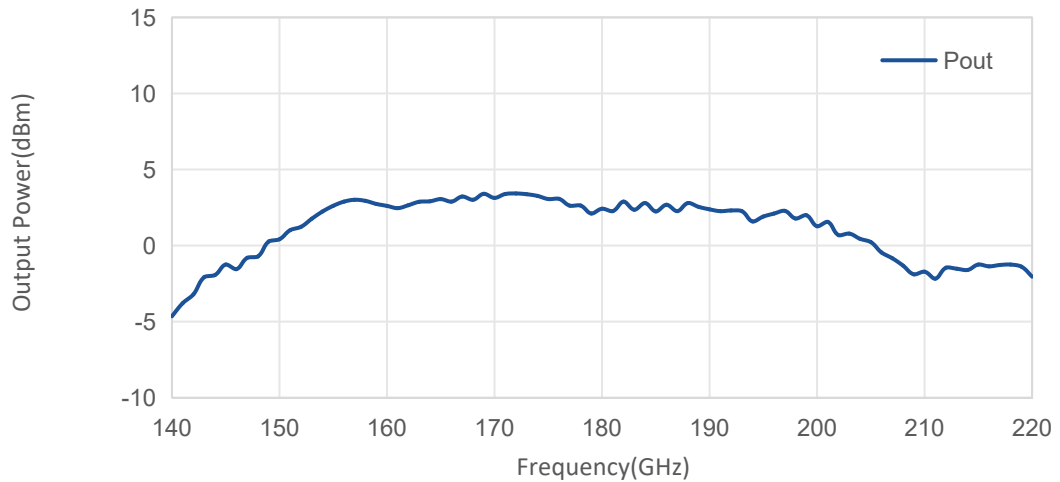
Part Number	Description	Quantity
S1-SMAMSMAM-1.2m	Coaxial Cable Assembly	4 PCS
TLACTDC-22012	AC-to-DC Power Adapter	1 PCS

Notes:

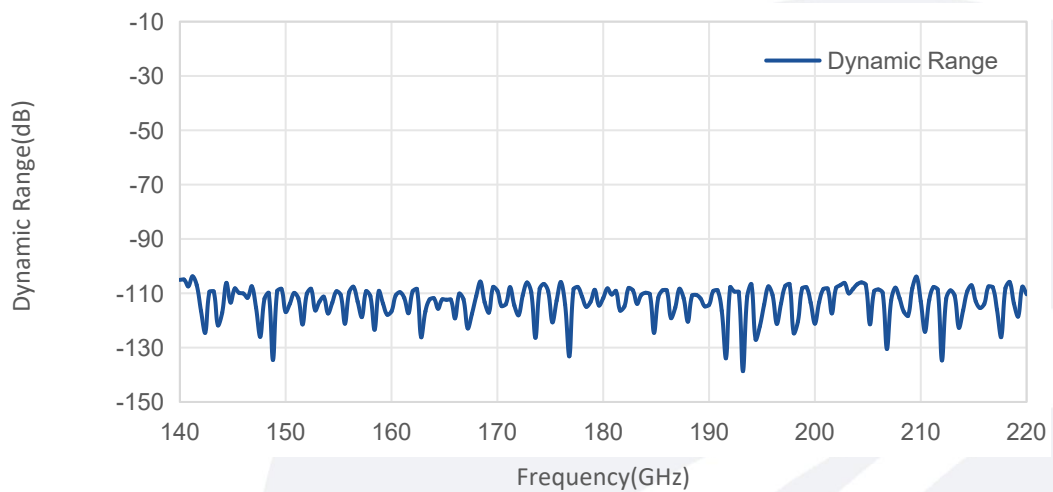
1. Dimensions and specifications may be changed without prior notice.
2. Standard Warranty:three years.

Typical Performance Data:

Output Power vs Frequency



Dynamic Range vs Frequency



Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.