

## E-band Phase Noise Analyzer Down-converter

50-90GHz/WR-12

Model: TLPNA-050090-06-12

TLPNA-050090-06-12 phase noise analyzer (PNA) down-converter is a dedicated Test & Measurement solution for extending the range of the microwave PNA to perform the phase noise to 50-90GHz.

### Features:

- Frequency range: 50-90GHz
- Conversion Gain: 10dB Typ
- Low conversion loss

### Applications:

- 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	50		90	GHz
中频输出频率 IF Output Frequency	0.01		1.6	GHz
本振输入频率 LO Input Frequency	8.33		15	GHz
本振输入功率 LO Input Power	3	5	10	dBm
变频增益 Conversion Gain		10		dB
倍频次数 Multiplication Factor		6		
射频输入P1dB RF Input P1dB			-2	dBm
杂散抑制 Harmonic Suppression		-20		dB

### 机械特性 Mechanical Specifications:

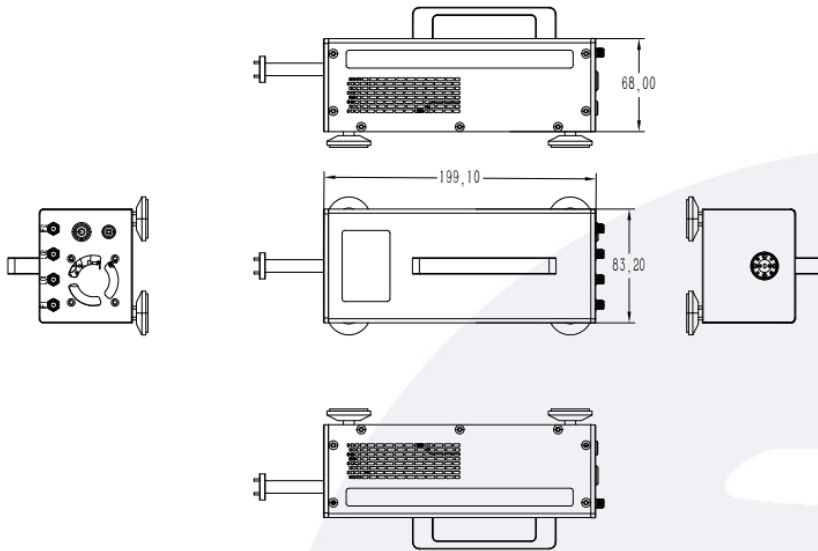
描述 Description	参数 Parameter	单位 Units
射频输入端口 RF Input Ports	WR-12/UG-387/U	
本振1/本振2端口 LO/IF Ports	SMA Female	
中频1/中频2输出端口 LO Input Ports	SMA Female	
供电引脚 Power Supply Pin	FGG 0B 4 Core	
尺寸 Size	199.1*83.2*68	mm

### 绝对最大值 Absolute Maximum Ratings :

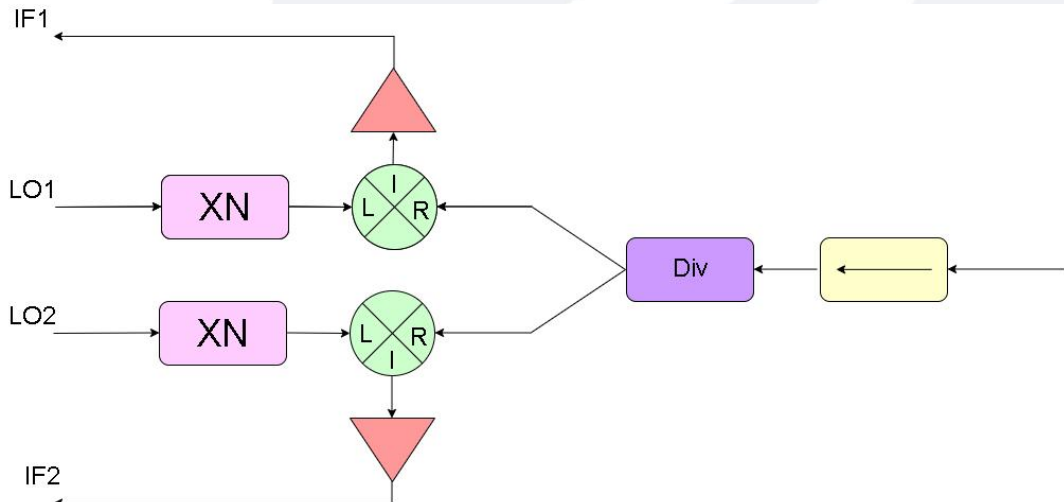
参数 Parameter	指标 Value
供电电压 Supply Bias Voltage	+240 V AC
射频输入功率 RF Input Power	-2 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

### 外形图 Outline Drawing:

Unit:mm



### 原理框图 Block Diagrams:



## 环境和物理特性 Environmental And Physical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-10		+65	°C
存储温度 Non-operating Temperature	-45		+85	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	10,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

## 订货信息 Ordering Information:

标准型号 Part Number	描述 Description	版本号 Revision
TLPAN-050090-06-12	E-band Phase Noise Analyzer Down-converter X6,50-90GHz, Conversion Gain: 10dB typ.	Rev.1.1

## 随货配件 Components Included:

标准型号 Part Number	描述 Description	数量 Quantity
TFACTDC-22012	AC-to-DC Power Adapter	1 PCS