泰莱微波
Talent Microwave

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D-Band Phase Noise Analyzer Down-Converter

110-170GHz/WR-6.5 Model: TLPNA-110170-12-06

TLPNA-110170-12-06 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 110-170GHz.

Features:

- Frequency range: 110-170GHz
- Unconditional stability

Applications:

- Transmit Extension
- Material characterisation

电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
射频输入频率范围 RF Input Frequency range	110		170	GHz
本振输入频率 LO Input Frequency	9.16		14.17	GHz
本振输入功率 LO Input Power	3	5	7	dBm
本振倍频系数 LO Multiplication Factor		12		
中频输出频率范围 IF Output Frequency range	0.01		1.6	GHz
混频器变频损耗 Mixer Conversion Loss		12		dB
谐波抑制 Harmonic Suppression		-20		dBc
输入P1dB Input P1dB		-10		dBm
供电电压 Power Supply		220		V

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value	单位 Units
射频输入最大功率 RF Input Power	+20	dBm
供电偏置电压 Supply Bias AC Voltage	240	V
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V	

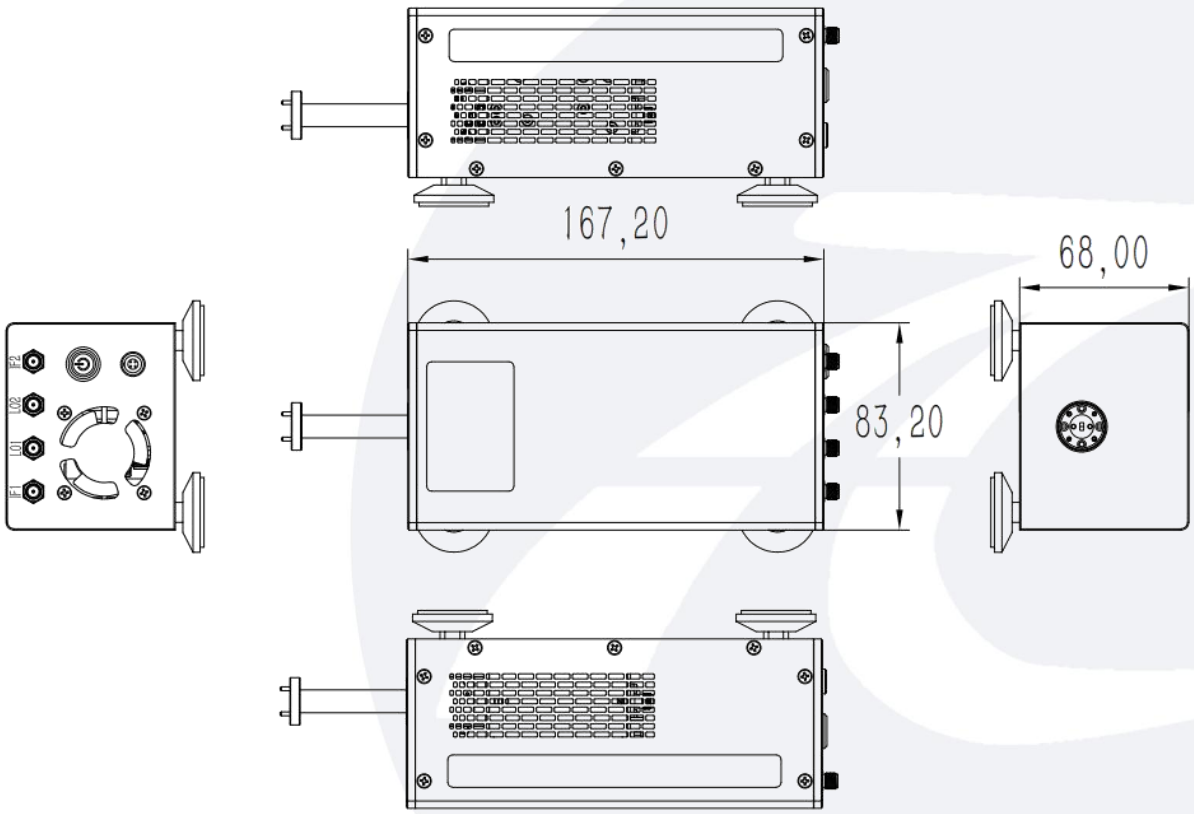
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环境和机械特性 Envrionmental And Physical Characteristics:

参数 Parameter	指标 Value	单位 Units
操作温度 Operating Temerature	-10 to +50	℃
存储温度 Storage Temerature	-50 to +80	℃
射频输入接口 RF Input Connector	WR-6.5/UG-387/U	
本振1/本振2输入接口 LO 1/LO 2 Input Connector	SMA Female	
中频1/中频2输出接口 IF 1/IF 2 Output Connector	SMA Female	
供电引脚 Power Supply Pin	FGG 0B 4 Core	
材质 Material	Aluminum	
表面处理 Finish	Gray spray paint	

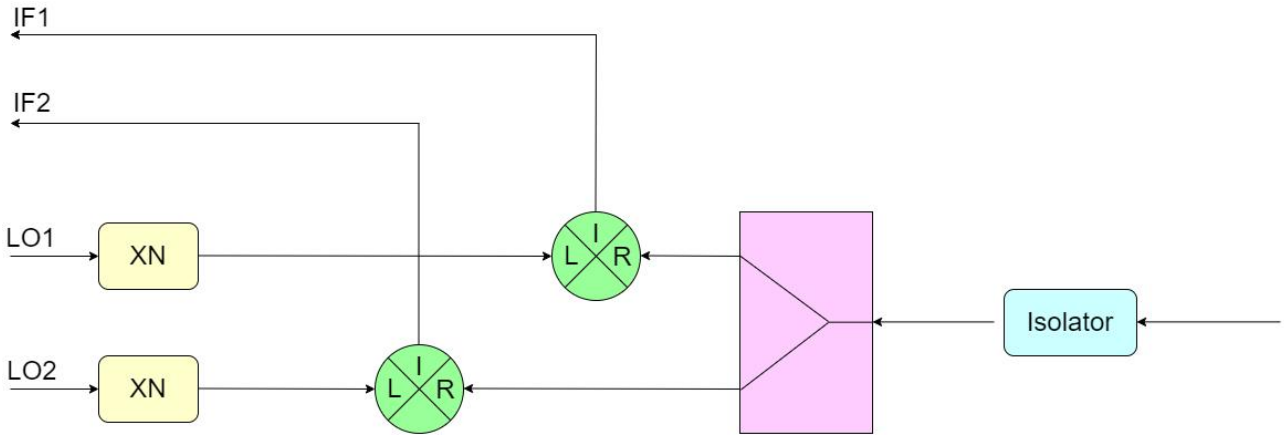
外形图 Outline Drawing:

Unit:mm; Tolerance:±0.1mm



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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
TLPNA-110170-12-06	D-Band Phase Noise Analyzer Down-Converters, 110-170GHz,Mixer Conversion Loss: 12dB Typ	Rev.1.0

随货配件 Components Included:

标准型号 Part Number	描述 Description	数量 Quantity
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.