

D-band VNA Frequency Extender 110-170 GHz,WR-06

Feature:

- Ultra Wide Band: 110-170 GHz
- Port Output Power (No Attenuation): -5dBm Typ
- Dynamic Range @ 10 Hz BW: 110dB Typ
- Unconditional stability

电气特性 Electrical Specifications:

| 参数Parameter | Min | Typ | Max | 单位Units |
|---|------|------|-------|---------|
| 频率范围 Frequency range | 110 | | 170 | GHz |
| 输出功率 Port Output Power | | -5 | | dBm |
| 输入功率 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 @10 Hz BW | | 110 | | dB |
| 方向性 Directivity | | 25 | | dB |
| 射频输入频率 RF Input Frequency | 9.16 | | 14.17 | GHz |
| 射频输入功率 RF Input Power | 3 | 7 | 10 | dBm |
| 本振输入频率 LO Input Frequency | 9.16 | | 14.17 | GHz |
| 本振输入功率 LO Input Power | 3 | 7 | 10 | dBm |
| 中频频率范围 IF Frequency Range | 10 | | 1000 | MHz |
| 倍频次数 Multiplication Factor | | 12 | | |
| 幅度稳定度 Stability @300Hz BW | | ±0.2 | | dB |
| 相位稳定度 Phase Stability @300Hz BW | | 4° | | |

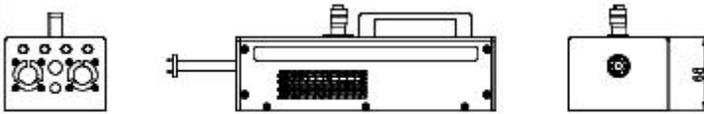
机械特性 Mechanical Specifications:

| 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-06/UG-387 |
| 供电引脚 Power Supply Pin | FGG 0B 4 Core |

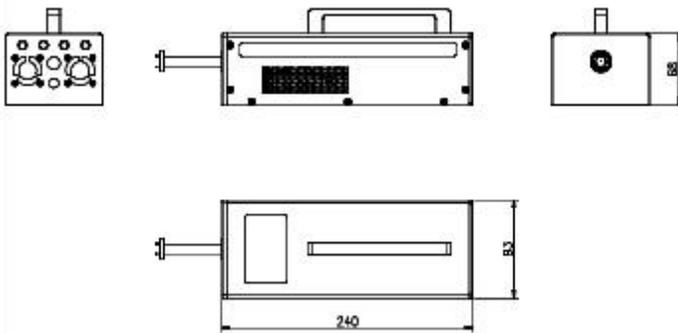
| 参数 Parameter | 指标 Value |
|----------------------------|----------|
| 供电偏置电压 Supply Bias Voltage | 240 V |
| 输入功率 RF Input Power | +20 dBm |

外形尺寸 Outline Drawing:

Unit: mm



TLVE-110170-N5-A



TLVE-110170-N5

原理框图 Block Diagrams:

| 参数 Parameter | Min | Typ | Max | 单位 Units |
|------------------------------------|--|-----|------|----------|
| 操作温度 Operating Temperature | 0 | | +50 | °C |
| 存储温度 Non-operating Temperature | -45 | | +125 | °C |
| 相对湿度 Relative humidity | | 95 | | % |
| 海拔 Altitude | 50,000 | | | feet |
| 震动 Shock / Vibration(MIL-STD-810F) | 20g,11ms,saw-tooth | | | |
| 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 |
|------------------|---|-------------|
| TLVE-110170-N5 | D-band VNA Frequency Extender, 110-170 GHz, Output Power:-5 dBm typ., Dynamic Range:110 dB typ.,Magnitude Stability @ 300 Hz BW:±0.2dB,Phase Stability @ 300 Hz BW:4° | Rev.1.1 |
| TLVE-110170-N5-A | D-band VNA Frequency Extender, 110-170 GHz, Output Power:-5 dBm typ., Dynamic Range:110 dB typ.,Magnitude Stability @ 300 Hz BW:±0.2dB,Phase Stability @ 300 Hz BW:4°,with Micrometer driven variable attenuators | Rev.1.1 |

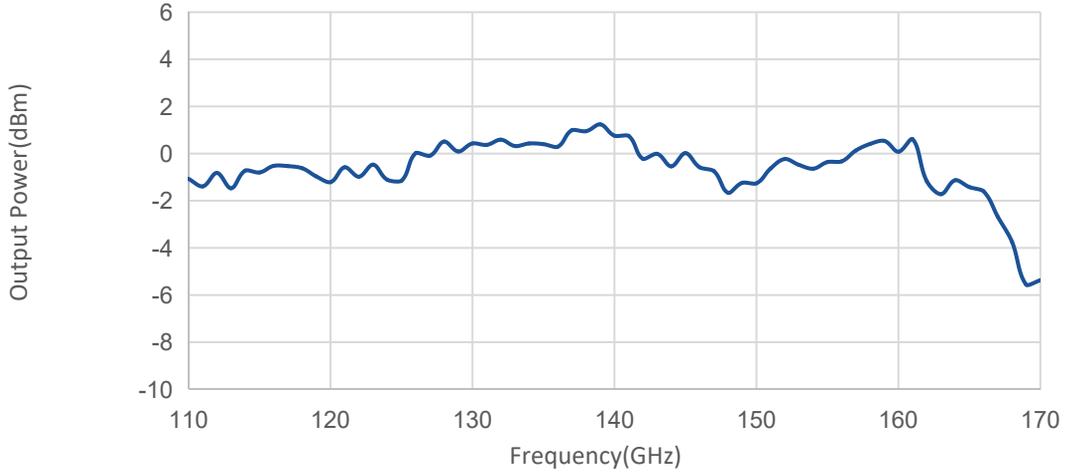
随货配件 Components Included:

| 标准型号 Part Number | 描述 Description | 数量 Quantity |
|------------------|------------------------|-------------|
| S1-SMAMSMAM-1.2m | Coaxial Cable Assembly | 4 PCS |
| TACTDC-22012 | AC-to-DC Power Adapter | 1 PCS |

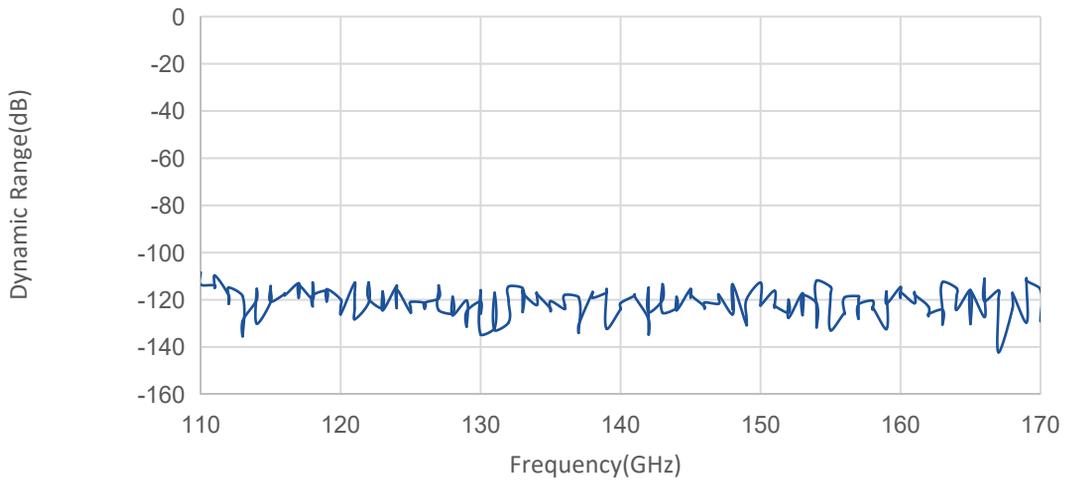
Notes:

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

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.