泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

# F-band Spectrum Frequency Extension Systems

## 90-140GHz/WR-08 Model: TLSM-090140-12-08

TLSM-090140-12-08 spectrum frequency extension systems are a dedicated Test & Measurement solution for extending the range of your signal source to 90-140 GHz.

## Features:

- Frequency range: 90-140GHz
- Conversion Loss SSB: 14dB 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 | 90 | | 140 | GHz |
| 中频输出频率 IF Output Frequency | DC | | 5 | GHz |
| 本振输入频率 LO Input Frequency | 7.5 | | 11.67 | GHz |
| 本振输入功率 LO Input Power | 13 | 15 | 20 | dBm |
| 倍频次数 Multiplication Factor | | 12 | | |
| 射频输入功率 RF Input Power | | -10 | 0 | dBm |
| 变频损耗 Mixer Conversion Loss SSB | | 14 | 16 | dB |

## 机械特性 Mechanical Specifications:

| 参数 Parameter | 指标 Value | 单位 Units |
|---|---|---|
| 射频输入端口 RF Input Ports | WR-08/UG-387/U | |
| 本振/中频端口 LO/IF Ports | SMA Female | |
| 本振输入端口 LO Input Ports | SMA Female | |
| 中频输出端口 IF Output Ports | SMA Female | |
| 供电引脚 Power Supply Pin | FGG 0B 4 Core | |
| 尺寸 Size | 155.2*75.2*52 | mm |

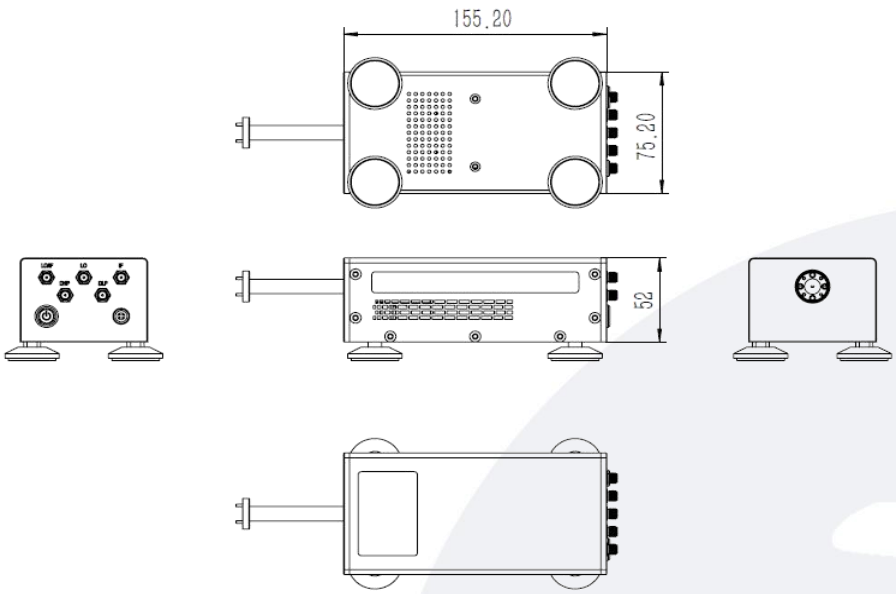
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## 绝对最大值 Absolute Maximum Ratings :

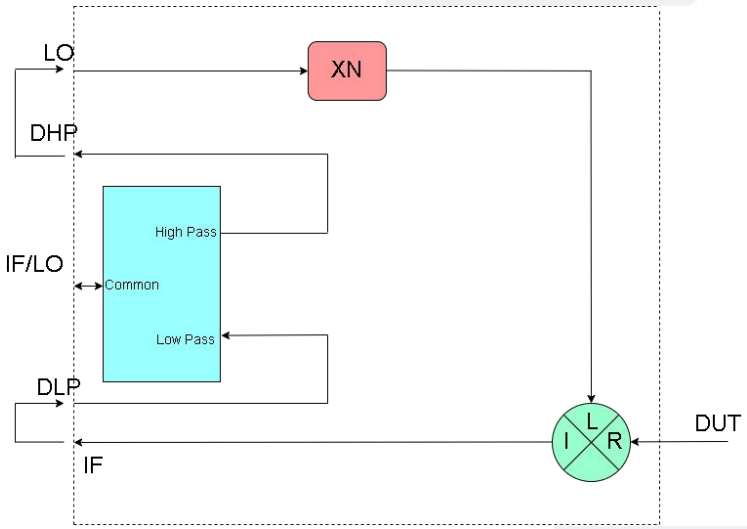
| 参数 Parameter | 指标 Value |
|---|---|
| 供电电压 Supply Bias Voltage | +240 V AC |
| 射频输入功率 RF Input Power | 0 dBm |
| ESD灵敏度 ESD sensitivity (HBm) | Class 0, passed 150V |

## 外形图 Outline Drawing:

Unit:mm; Tolerance:±0.1mm




## 原理框图 Block Diagrams:



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

| 参数 Parameter | Min | Typ | Max | 单位 Units |
|---|---|---|---|---|
| 操作温度 Operating Temperature | -10 | | +65 | ℃ |
| 存储温度 Non-operating Temperature | -45 | | +85 | ℃ |
| 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 |
|---|---|---|
| TLSM-090140-12-08 | F-Band Spectrum Frequency Extension Systems<br>X12, 90-140GHz, Conversion Loss SSB: 14dB 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 |