

## Spectrum Frequency Extension Systems

260-400GHz/WR-2.8

Model: TLSM-260400-24-2.8

TLSM-260400-24-2.8 spectrum frequency extension systems are a dedicated Test & Measurement solution for extending the range of your signal source to 260-400 GHz.

### Features:

- Frequency range: 260-400 GHz
- Conversion Loss SSB: 15dB 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           | 260   |     | 400   | GHz      |
| 中频输出频率 IF Output Frequency     | DC    |     | 5     | GHz      |
| 本振输入频率 LO Input Frequency      | 10.83 |     | 16.67 | GHz      |
| 本振输入功率 LO Input Power          | 13    | 15  | 20    | dBm      |
| 倍频次数 Multiplication Factor     | 24    |     |       |          |
| 射频输入功率 RF Input Power          |       | -10 | 0     | dBm      |
| 变频损耗 Mixer Conversion Loss SSB |       | 15  |       | dB       |

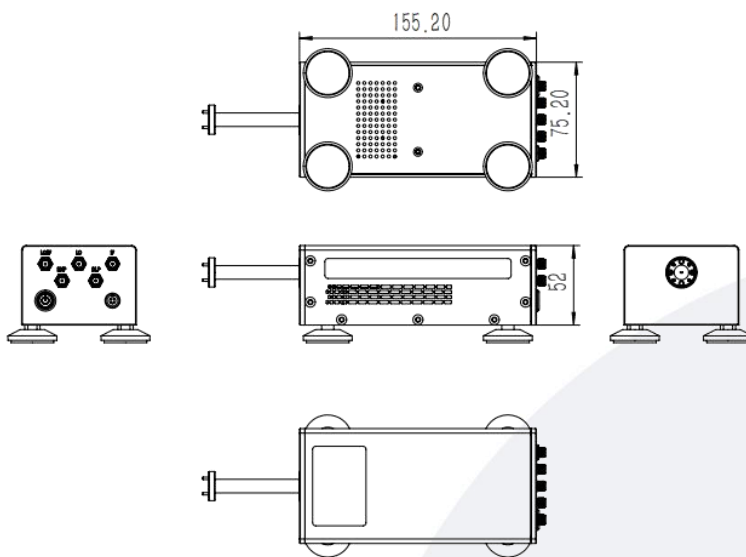
### 机械特性 Mechanical Specifications:

| 描述 Description         | 参数 Parameter    | 单位 Units |
|------------------------|-----------------|----------|
| 射频输入端口 RF Input Ports  | WR-2.8/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      |          |
| 高通端口 DHP Ports         | SMA Female      |          |
| 低通端口 DLP Ports         | SMA Female      |          |
| 供电引脚 Power Supply Pin  | FGG 0B 4 Core   |          |
| 尺寸 Size                | 155.2*75.2*52   | mm       |

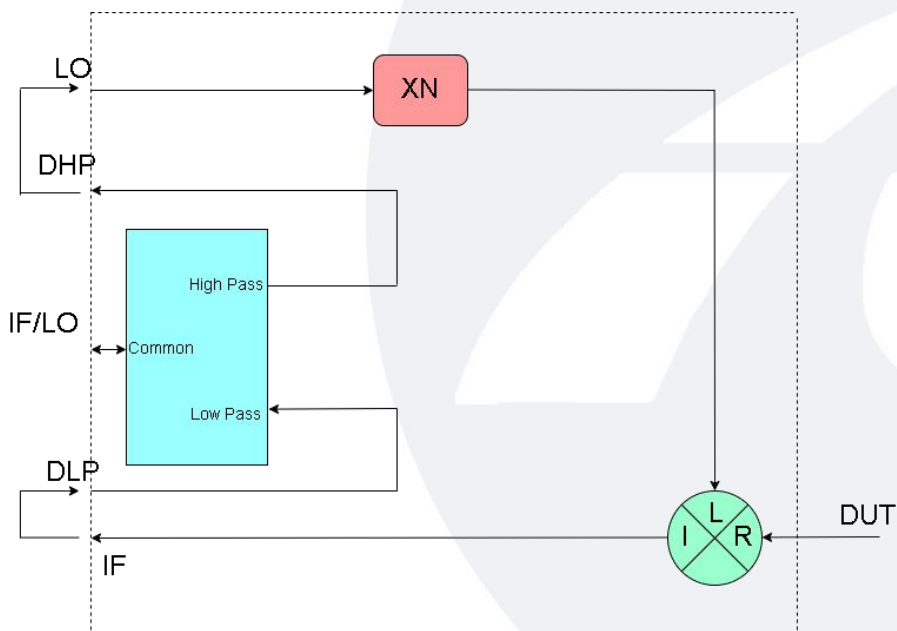
## 绝对最大值 Absolute Maximum Ratings :

| 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        | 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:



## 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 |
|--------------------|----------------------------------------------------------------------------------------|--------------|
| TLSM-260400-24-2.8 | Spectrum Frequency Extension Systems<br>X24,260-400GHz, Conversion Loss SSB: 15dB 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       |