

## W-band Spectrum Frequency Extension Systems

75-110GHz/WR-10

Model: TLSM-075110-08-10

TLSM-075110-08-10 spectrum frequency extension systems are a dedicated Test & Measurement solution for extending the range of your signal source to 75-110GHz.

### Features:

- Frequency range: 75-110 GHz
- Conversion Loss SSB: 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	75		110	GHz
中频输出频率 IF Output Frequency	DC		5	GHz
本振输入频率 LO Input Frequency	9.37		13.75	GHz
本振输入功率 LO Input Power	13	15	20	dBm
倍频次数 Multiplication Factor	8			
射频输入功率 RF Input Power		-10	0	dBm
变频损耗 Mixer Conversion Loss SSB		10		dB

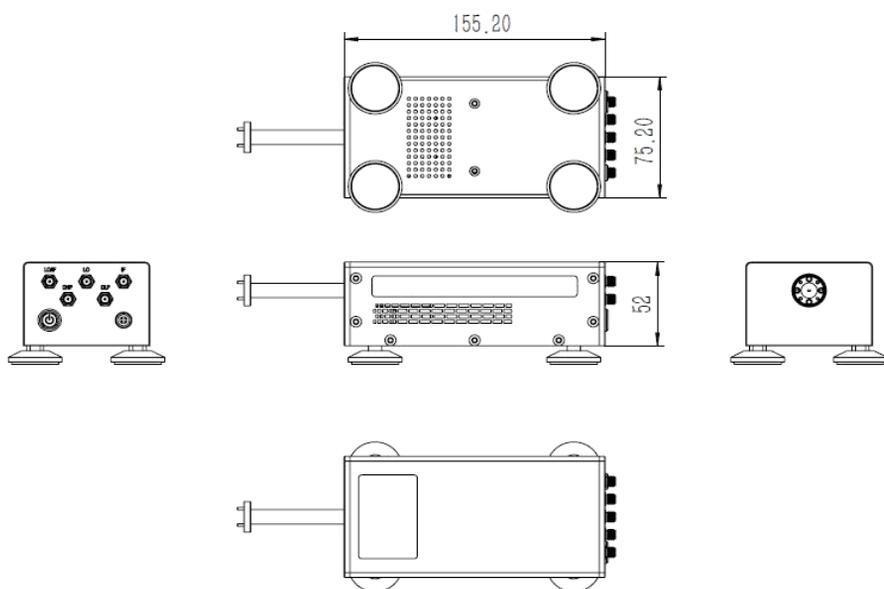
### 机械特性 Mechanical Specifications:

描述 Description	参数 Parameter	单位 Units
射频输入端口 RF Input Ports	WR-10/UG-387/UM	
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

## 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



## 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-075110-08-10	W-Band Spectrum Frequency Extension Systems, X8,75-110GHz, Conversion Loss:10dB typ	Rev.1.0

### 随货配件 Components Included:

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