

**Model: TLHM-110170-14-06**
**Spectrum Analyzer Harmonic Mixer**  
**RF:110-170 GHz ,IF:DC-1.8GHz, 14<sup>th</sup>**
**Feature:**

- Designed for Keysight PXA series and R&S FSW series
- Full Waveguide Band Operation
- Compact Package
- 3 port design
- 14<sup>th</sup> Harmonic Detection

**电气特性 Electrical:**

参数Parameter	Min.	Typ.	Max.	单位Units
RF频率 RF Frequency	110		170	GHz
LO频率 LO Frequency	7.85		12.15	GHz
IF频率 IF Frequency	DC		1.8	GHz
LO 驱动功率 LO-Input power		+15		dBm
输入功率 Input Power			0	dBm
RF 驻波 RF VSWR		3.0		:1
SSB 变频损耗 Conversion Loss	-30	-35	-50	dB

**机械特性 Mechanical :**

参数Parameter	指标 Value	单位Units
RF 接口RF Connector	WR-6.5/UG-387	
LO接口LO Connector	SMA Female	
IF接口 IF Connector	SMA Female	
尺寸 Size	97*28*24	mm

**绝对最大值 Absolute Maximum Ratings:**

参数Parameter	指标 Value
RF 功率 RF Input Power	+0 dbm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

典型曲线 Typical Performance Data:

温度环境 Environmental Conditions:



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	0		+45	°C
存储温度 Non-operating Temperature	-25		+65	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			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
TLHM-110170-14-06	Spectrum Analyzer Harmonic Mixer RF:110-170 GHz ,IF:DC-1.8GHz, 14 <sup>th</sup> 3 port design	Rev.1.1