

**Model: TLHM-140220-16-05**
**Spectrum Analyzer Harmonic Mixer**  
**RF:140-220 GHz,IF:DC-1.5 GHz,16th**
**Feature:**

- Designed for Keysight PXA series and R&S FSW series
- Full Waveguide Band Operation
- Compact Package
- 3 port design
- 16th Harmonic Detection

**电气特性 Electrical Specifications:**

参数Parameter	Min	Typ	Max	单位Units
RF频率 RF Frequency	140		220	GHz
LO频率 LO Frequency	8.75		13.75	GHz
IF频率 IF Frequency	DC		1.5	GHz
LO 驱动功率 LO-Input power		12		dBm
输入功率 Input Power			0	dBm
RF输入驻波 RF Input VSWR		3.6		:1
单边带变频损耗 SSB Conversion Loss		-40		dB

**机械特性 Mechanical Specifications:**

参数Parameter	指标 Value	单位Units
RF 接口RF Connector	WR-05/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	0dBm
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		+40	°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-140220-16-05	Spectrum Analyzer Harmonic Mixer RF:140-220 GHz,IF:DC-1.5GHz,16th,3 port design	Rev.1.1