

**Model: TLHM-140220-0240-05**
**Sub-Harmonic Mixer**
**RF:140-220 GHz, LO:70-110GHz, IF:DC-40 GHz**
**Feature:**

- Low LO Power Requirement
- Subharmonic Mixing
- Compact Package

**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	70		110	GHz
IF频率 IF Frequency	DC		40	GHz
LO 驱动功率 LO-Input power	6		8	dBm
射频输入功率 RF Input Power			0	dBm
RF驻波 RF VSWR		3		:1
单边带变频损耗 SSB Conversion Loss		-12		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	WR-10/UG-387	
IF 接口 IF Connector	2.4mm Female	
尺寸 Size	41*28*20	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

外形尺寸 Outline Drawing:

Unit: mm

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-140220-0240-05	Subharmonically Mixer RF:140-220GHz,LO:70-110GHz,IF:DC-40GHz	Rev.1.1

典型曲线 Typical Performance Data:

Conversion Loss vs RF Frequency

