泰莱微波 Talent Microwave

Suzhou Talent Microwave,Inc
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Balance Mixer

RF:55-90 GHz/LO:55-90 GHz/IF:DC-30GHz　　Model: TLBM-055090-30-12

TLBM-055090-30-12 is a balance mixer. The mixer supports the full waveguide band operation for both LO and RF frequency from 55 to 90 GHz with an extremely broad IF output from DC to 30 GHz. The mixer offers a typical conversion loss of -10dB@IF=100MHz typical and LO input power of 18 dBm. The E-band,X6 multiplier of Talent model TMAM-057095-0616-12 can be used as the LO driver for this mixer.

Features:

- RF/LO coverage : 55-90GHz
- IF operation : DC-30GHz
- Conversion loss: 10dB Typ
- High LO to RF isolation
- Suggested LO drive model:TMAM-057095-0616-12

Applications:

- Radar Systems
- Communication Systems
- Test Equipment

电气特性 Electrical Characteristics:

参数 Parameter		Min	Typ	Max	单位 Units
RF频率 RF Frequency		55		90	GHz
LO频率 LO Frequency		55		90	GHz
IF频率 IF Frequency		DC		30	GHz
LO驱动功率 LO-Input power		16	18	20	dBm
射频线性输入P1dB RF Input P1dB			8		dBm
单边带变频损耗 SSB Conversion Loss	@IF=100MHz		10		dB
	@LO=60GHz		10		

机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
RF 接口RF Connector	WR-12/UG-387/U	
LO 接口LO Connector	WR-12/UG-387/U	
IF 接口 IF Connector	2.92mm Female	
尺寸 Size	28*20*20	mm

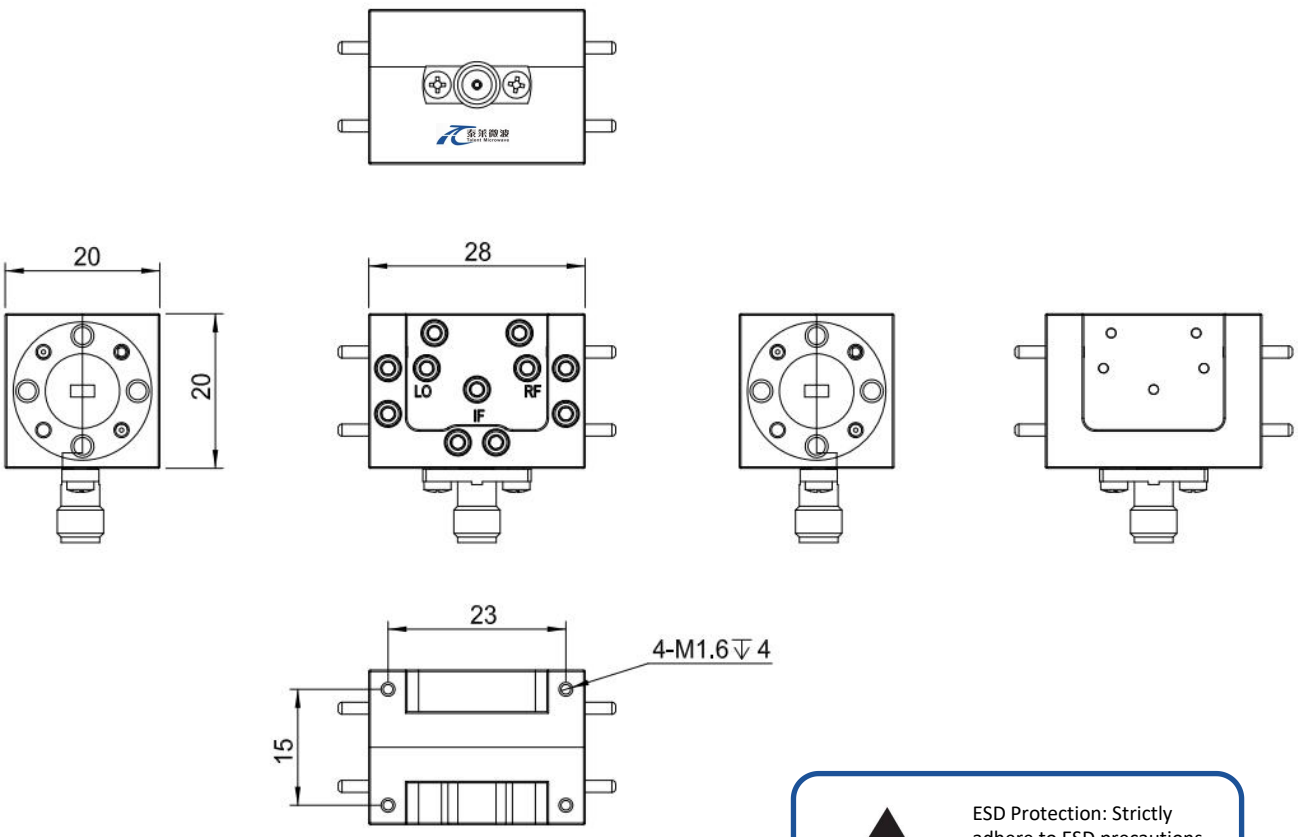
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绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
RF 功率 RF Input Power	15 dBm
IF 功率 IF Input Power	15 dBm
LO 功率 LO Input Power	21 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形图 Outline Drawing:

Unit:mm; Tolerance:±0.1mm



ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

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温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-10		+65	℃
存储温度 Non-operating Temperature	-45		+85	℃
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 Base Number	描述 Description	版本号 Revision
TLBM-055090-30-12	Balance Mixer RF:55-90GHz,LO:55-90GHz,IF:DC-30GHz	Rev.1.0