

Dual Balance Mixer

RF:2-22 GHz/LO:2-22 GHz/IF:DC-3.5 GHz

TLBM-0222-S

TURBM-0222S is a dual balance mixer. The mixer covers the RF frequency from 2 to 22 GHz ,LO frequency from 2 to 22 GHz with an extremely broad IF output from DC to 3.5 GHz. The mixer offers a conversion loss of 10 dB typical and LO input power of 9 dBm typical.

Features:

- RF coverage : 2-22GHz
- LO coverage : 2-22GHz
- IF operation : DC-3.5GHz
- Conversion loss: 10dB Typ
- High LO to RF isolation
- Dual Balanced Mixer

Applications:

- Defense & federal communications
- Instrumentations

电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
RF频率 RF Frequency	2		22	GHz
LO频率 LO Frequency	2		22	GHz
LO 驱动功率 LO-Input power	6	9	27	dBm
IF频率 IF Frequency	DC		3.5	GHz
IF输入P1dB压缩点 IF Input 1dB Gain Compression Point		3		dBm
变频损耗 Conversion Loss		10	15	dB
RF至IF隔离度 RF to IF Isolation		25		dB
RF至LO隔离度 RF to LO Isolation		45		dB
LO至IF隔离度 LO to IF Isolation		20		dB

机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
端口1 Connector1	SMA Female	

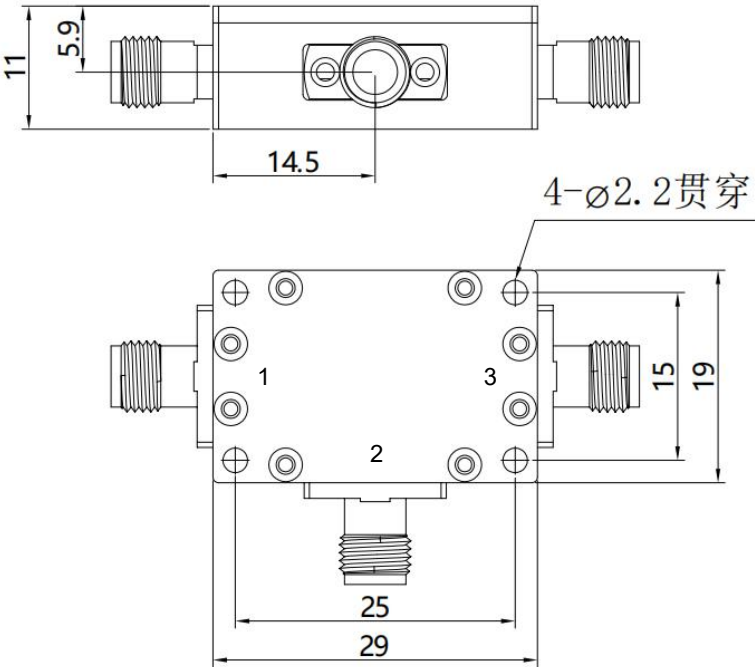
绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
LO功率 LO Input Power	27 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

接口定义 Port Functions

端口 Port	功能 Function
Port1	RF
Port2	IF
Port3	LO

外形图 Outline Drawing: Unit:mm



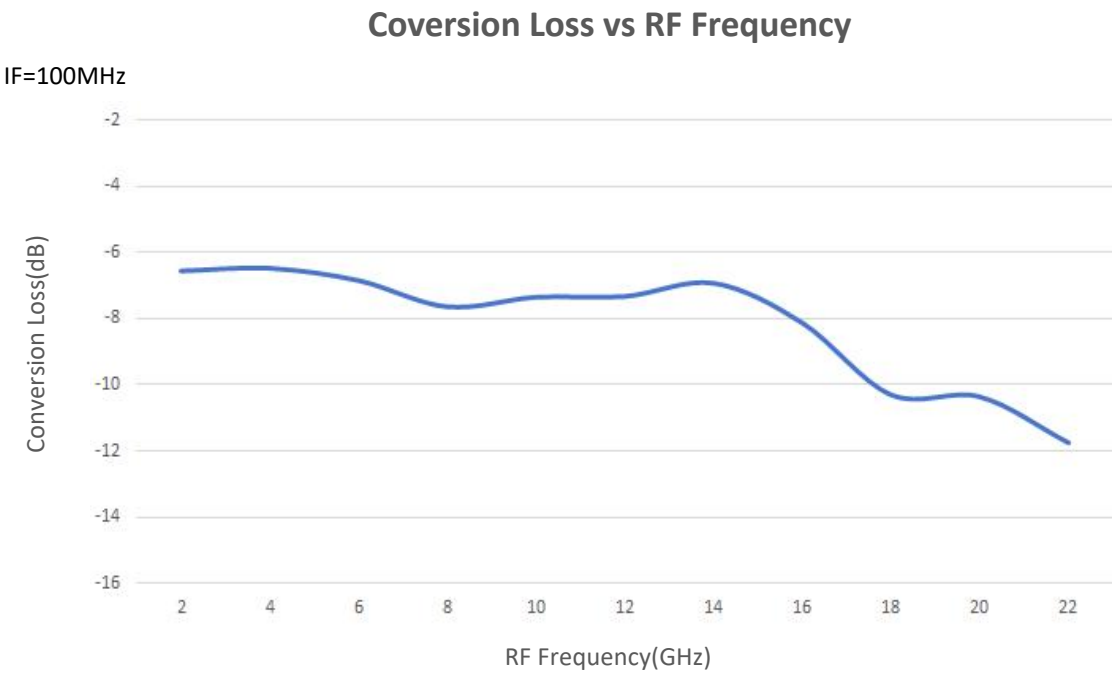
温度环境 Environmental Conditions:

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:

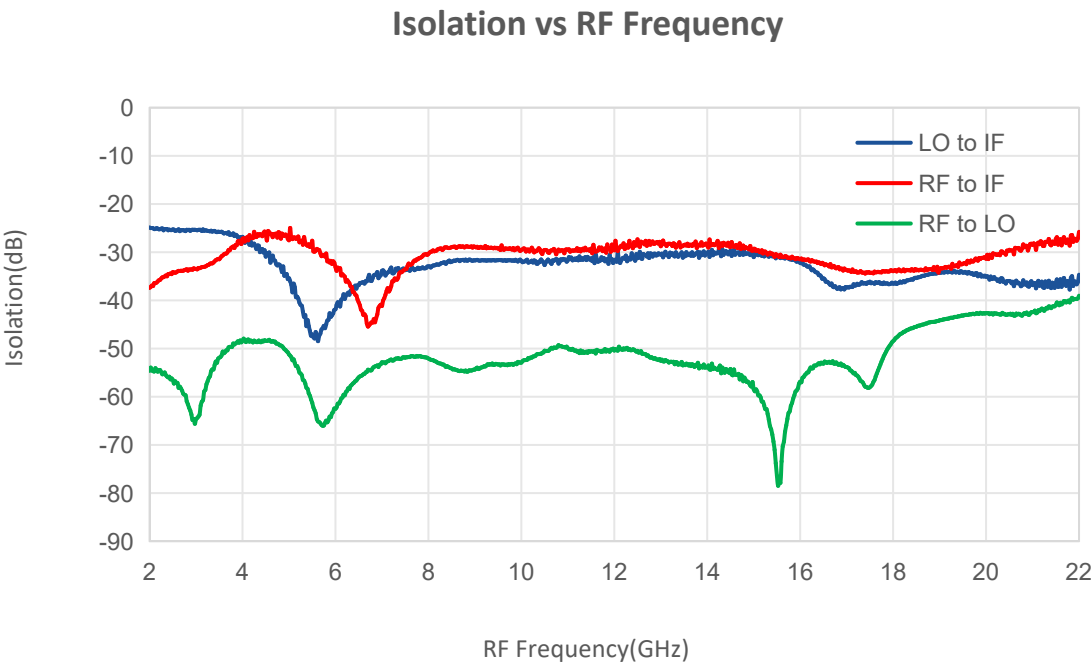
标准型号 Base Number	描述 Desciption	版本号 Revision
TURBM-0222S	Dual Balanced Mixer RF:2-22GHz,LO:2-22GHz,IF:DC-3.5GHz	Rev.1.1

典型曲线 Typical Performance Data:



Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

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