Turpanic Co, Ltd
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Dual Balance Mixer

RF:6-26 GHz/LO:6-26 GHz/IF:DC-12 GHz Model: TLBM-0626-S

TLBM-0626-S is a dual balance mixer. The mixer covers the LO and RF frequency from 6 to 26 GHz with an extremely broad IF output from DC to 12 GHz. The mixer offers a conversion loss of 10 dB typical and LO input power of 15 dBm typical.

Features:

- RF/LO coverage： 6-26GHz
- IF operation： DC-12GHz
- 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	6		26	GHz
LO频率 LO Frequency	6		26	GHz
LO 驱动功率 LO-Input power	13	15	21	dBm
IF频率 IF Frequency	DC		12	GHz
IF输入功率 IF Input Power		-10		dBm
变频损耗 Conversion Loss		10		dB
隔离度"LO-RF" Isolation "LO-RF"		30		dB
隔离度"LO-IF" Isolation "LO-IF"		25		dB
隔离度"RF-IF" Isolation "RF-IF"		7		dB

机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
端口1 Connector 1	2.92mm Female	
端口3 Connector 3	2.92mm Female	
端口2 Connector 2	SMA Female	
尺寸 Size	23.6*14.4*8	mm

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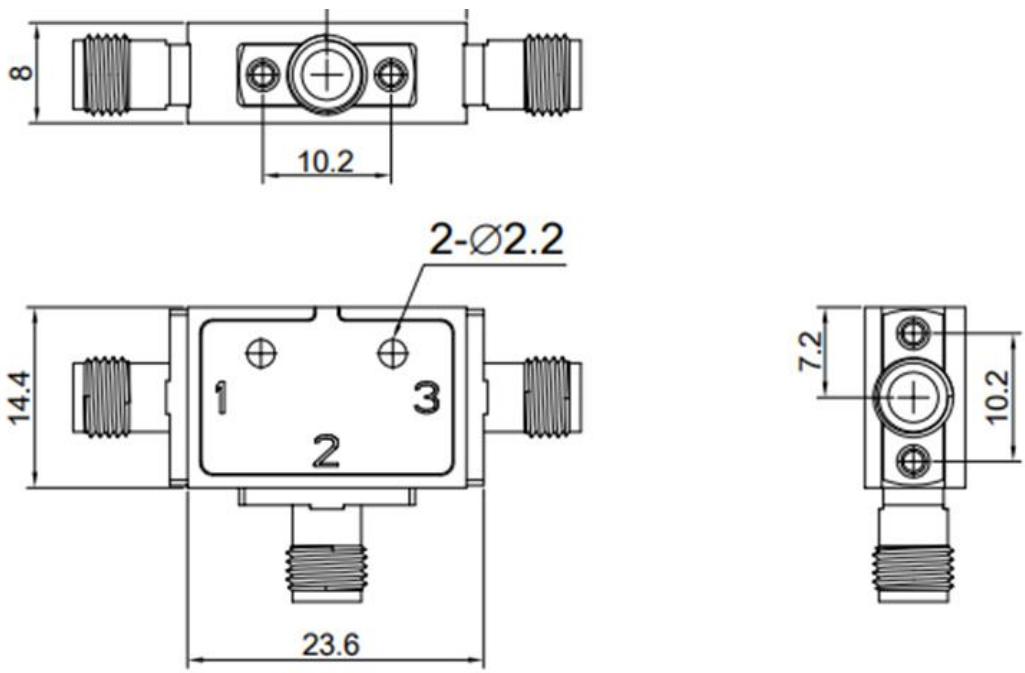
接口定义 Connector Functions:

端口 Port	功能 Function
Port 1	LO
Port 2	IF
Port 3	RF

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
LO输入功率 LO Input Power	+21 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形图 Outline Drawing: Unit:mm



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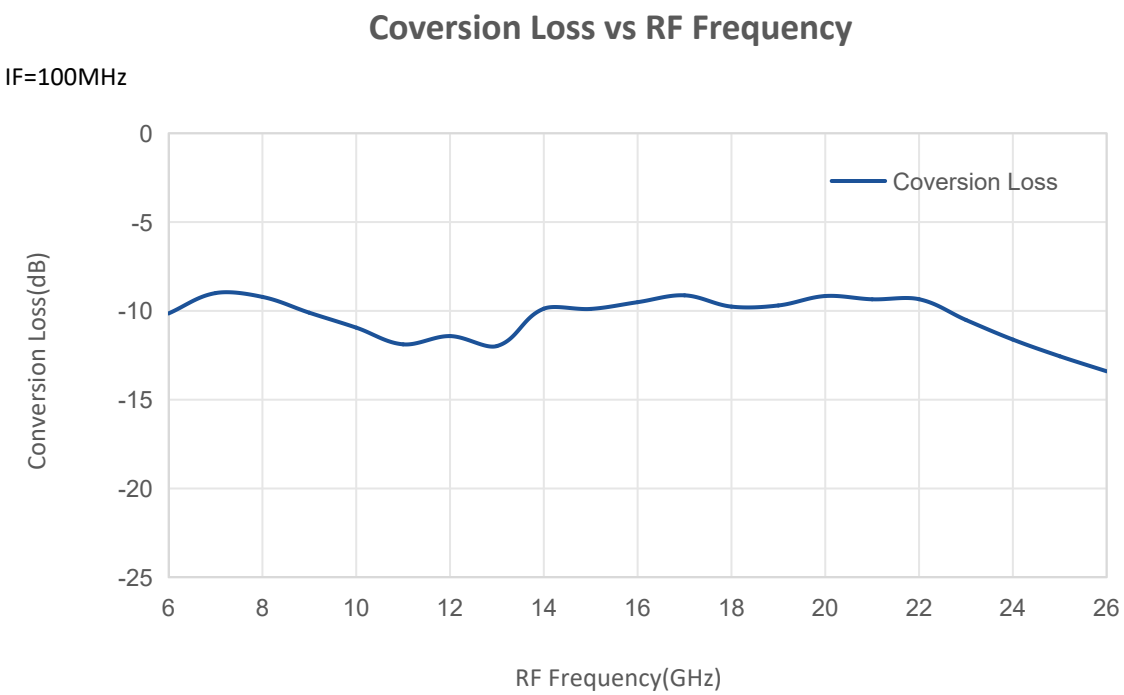
温度环境 Environmental Conditions:

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 Desciption	版本号 Revision
TLBM-0626-S	Dual Balanced Mixer RF:6-26GHz,LO:6-26GHz,IF:DC-12GHz	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

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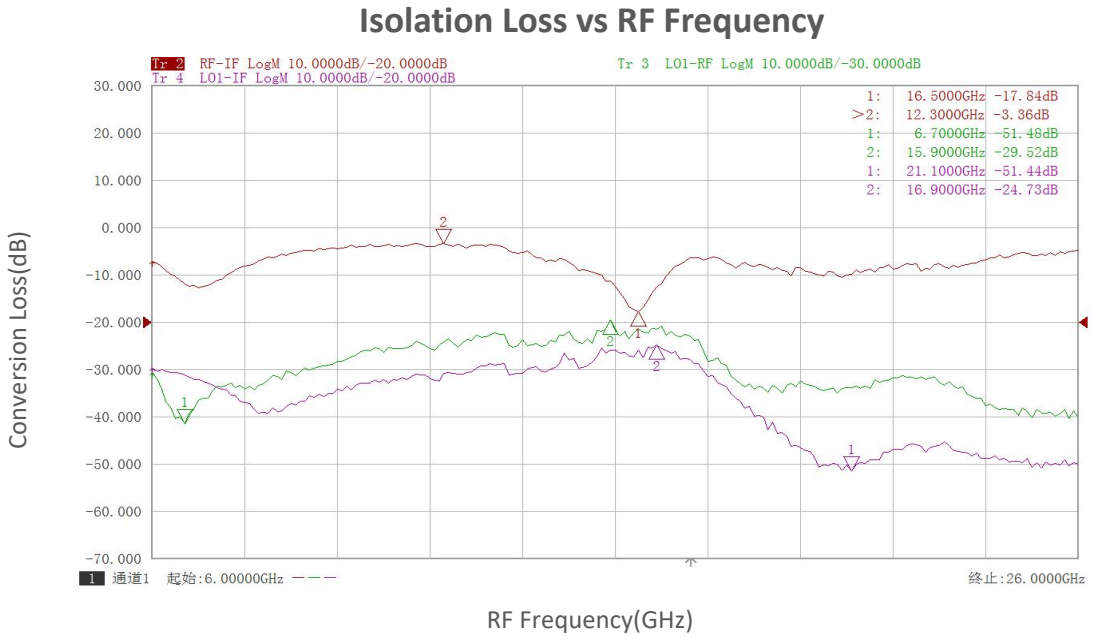

Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.