

Dual Balance Mixer

RF:0.01-67 GHz/LO:0.01-67 GHz/IF:0.01-1 GHz

Model: TLBM-0.01G67G-01-V

TLBM-0.01G67G-01-V is a dual balance mixer with VEE supply. The mixer covers the RF frequency from 0.01 to 67 GHz ,LO frequency from 0.01 to 67 GHz with an extremely broad IF output from 0.01 to 1 GHz. The mixer offers a conversion loss of 8 dB typical and LO input power of 0 dBm typical.

Features:

- RF coverage : 0.01-67GHz
- LO coverage : 0.01-67GHz
- IF operation : 0.01-1GHz
- Conversion loss: 8dB Typ
- High LO to RF isolation
- Dual Balanced Mixer
- VEE Supply
- Down conversion only

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	0.01		67	GHz
LO频率 LO Frequency	0.01		67	GHz
LO 驱动功率 LO-Input power	-2	1	3	dBm
IF频率 IF Frequency	0.01		1	GHz
输入1dB压缩点 P-1 Input P1dB		0		dBm
变频损耗 Conversion Loss		7		dB
RF至IF隔离度 RF to IF Isolation		15		dB
RF至LO隔离度 RF to LO Isolation		40		dB
LO至IF隔离度 LO to IF Isolation		35		dB
VEE 供电电压 VEE power supply	-3.5	-3.3	-3	V
供电电流 current		90		mA

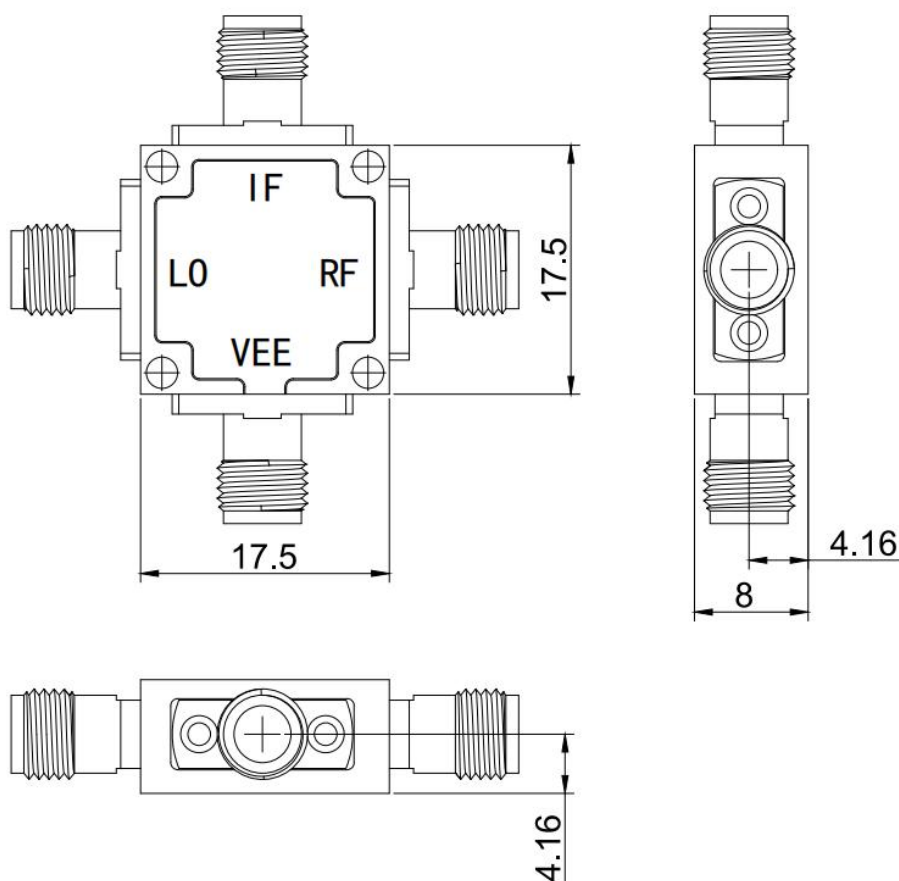
机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
RF Port	1.85 Female	
LO Port	1.85 Female	
IF Port	SMA Female	
直流偏置 Bias	SMA Female	
尺寸 Size	17.5*17.5*8	mm
重量 Weight		g

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
RD/LO功率 RF/LO Input Power	5 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形图 Outline Drawing:



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-0.01G67G-01-V	Dual Balanced Mixer RF:0.01-67GHz,LO:0.01-67GHz,IF:0.01-1GHz -3.3V VEE Supply	Rev.1.0