

TURAMCM-020050052

TURAMCM-020050052 is an up and down fundamental mixer integrated with x2 active frequency multiplier chain. The converter has an input LO frequency of 10 to 25 GHz with a typical input power of -6 dBm. RF frequency can range from 20 to 50 GHz and IF port can range from DC to 5GHz with SMA connector. The DC power requirementfor the multiplier is +12 V DC.

Features:

- RF Frequency:20-50GHz
- LO Frequency:10-25GHz
- IF Frequency:DC-5GHz
- Low Conversion Loss

Applications:

- Test Equipment
- Radar System
- Defense & federal communications
- Instrumentations

电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
RF频率 RF Frequency	20		50	GHz
LO频率 LO Frequency	10		25	GHz
IF频率 IF Frequency	DC		5	GHz
LO 驱动功率 LO-Input power		-6	-4	dBm
中频输入功率 IF Input power		-10		dBm
变频损耗 Conversion Loss		-10		dB
直流电压 DC Supply Voltage		12		V DC
直流电流 DC Supply Current		150		mA

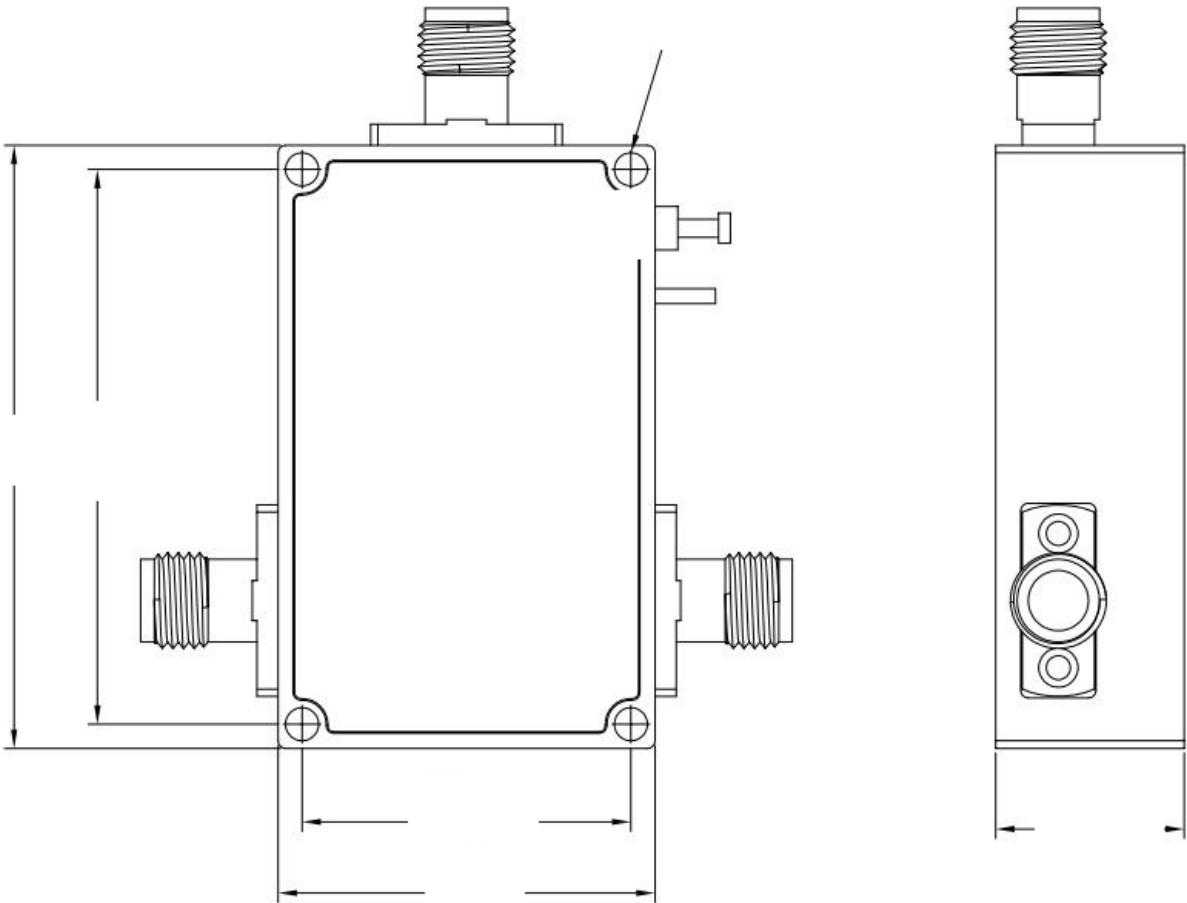
机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
RF 接口RF Connector	2.4mm Female	
LO 接口LO Connector	2.92mm Female	

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
LO输入功率 LO Input Power	-4 dBm
直流电压 DC Supply Voltage	+15 V
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

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	0		+50	℃
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
TURAMCM-020050052	Active Tx/Rx Converter, RF:20-50GHz,LO:10-25GHz,IF:DC-5GHz	Rev.1.1