

18-40GHz Tx/Rx Converter

RF:18-40 GHz/LO:4.5-10 GHz/IF:DC-18 GHz

Model: TLAMCM-018040-18-4

TLBM-018040-20-4 is an up and down fundamental mixer integrated with x4 active frequency multiplier chain. The converter has an input LO frequency of 18 to 40 GHz with a Maximum input power of +24 dBm. RF frequency can range from 18 to 40 GHz and IF port can range from DC to 18GHz with SMA connector. The DC power requirement for the multiplier is +12 V DC.

Features:

- RF Frequency:18-40GHz
- LO Frequency:4.5-10GHz
- IF Frequency:DC-18GHz
- Conversion Loss:9dB

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	18		40	GHz
LO频率 LO Frequency	4.5		10	GHz
IF频率 IF Frequency	DC		18	GHz
LO 驱动功率 LO-Input power		0		dBm
变频损耗 Conversion Loss		9		dB
直流电压 DC Supply Voltage		12		V
直流电流 DC Supply Current		150		mA

机械特性 Mechanical Specifications:

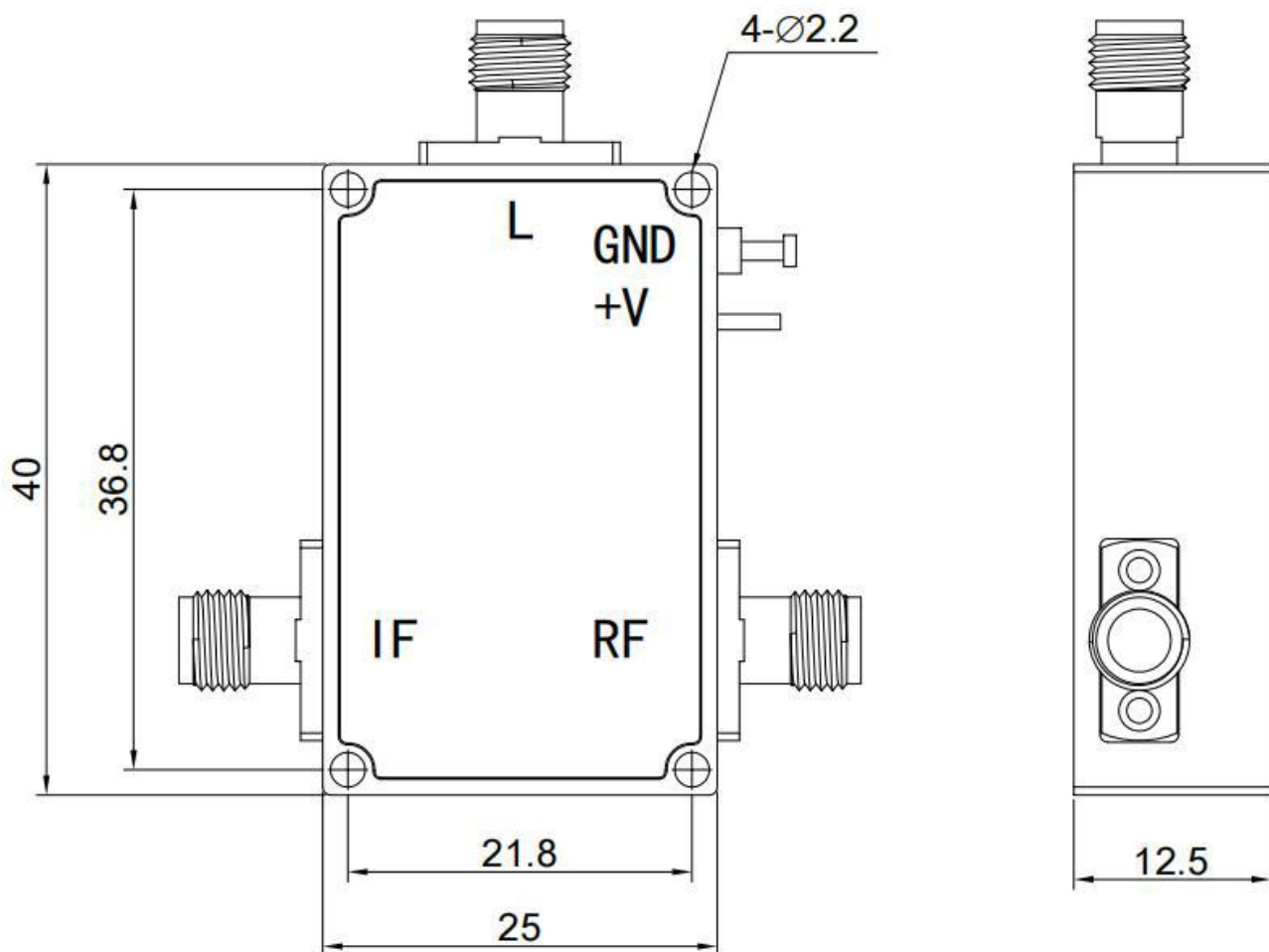
参数 Parameter	指标 Value	单位 Units
RF 接口 RF Connector	2.4mm Female	
LO 接口 LO Connector	2.92mm Female	
IF 接口 IF Connector	SMA Female	
直流供电 DC Supply	Solder Pin	
尺寸 Size	40x25x12.5	mm

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
RF 功率 RF Input Power	24 dBm
直流电压 DC Supply Voltage	+15V
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	°C
存储温度 Non-operating Temperature	-45		+85	°C
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
TLAMCM-018040-18-4	Active Tx/Rx Converter, RF:18-40GHz,LO:4.5-10GHz,IF:DC-18GHz	Rev.1.1