

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

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
RF Frequency	18		40	GHz
LO Frequency	4.5		10	GHz
IF Frequency	DC		18	GHz
LO-Input power		0		dBm
Conversion Loss		9		dB
DC Supply Voltage		12		V
DC Supply Current		150		mA

Mechanical Specifications:

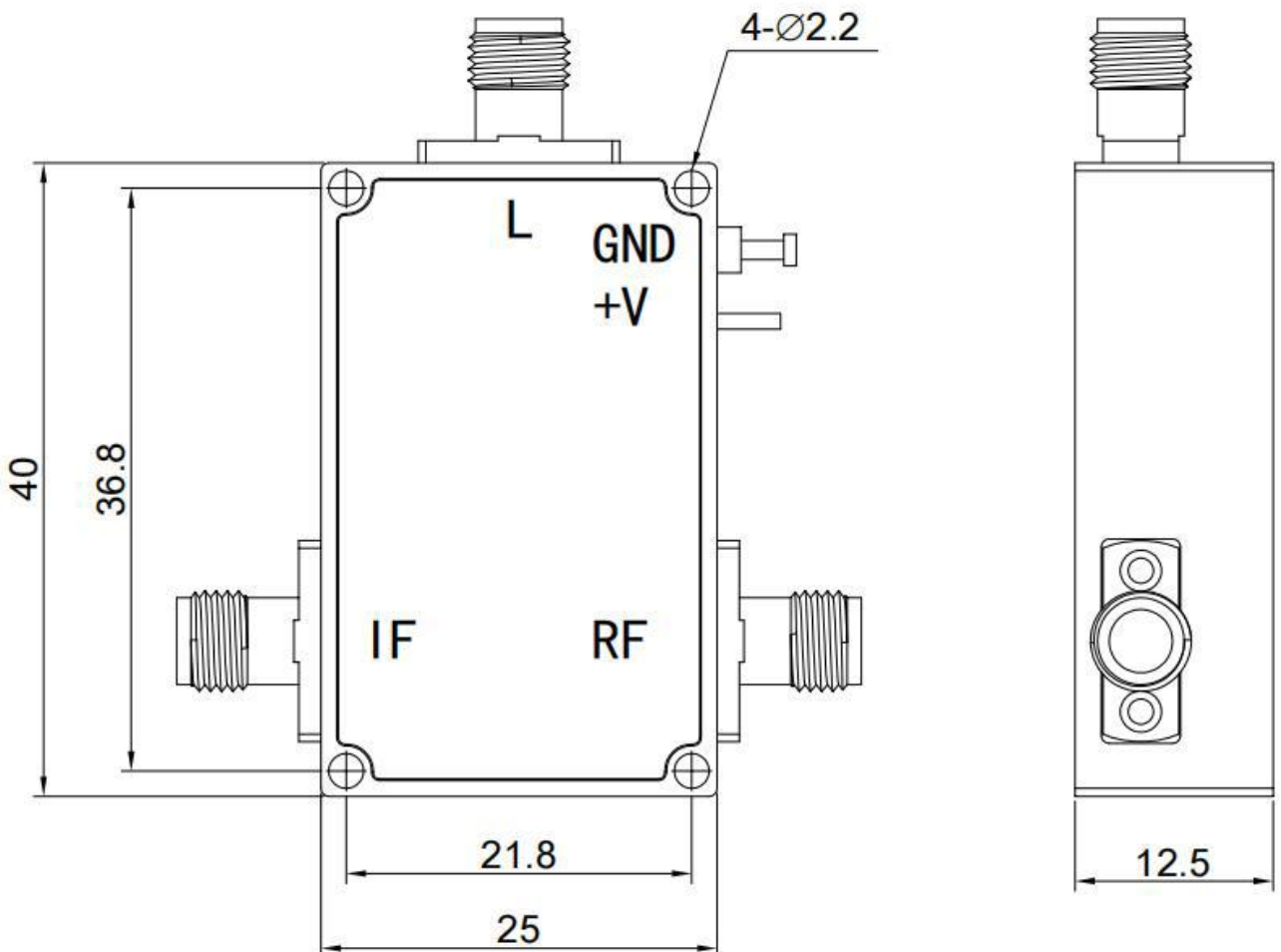
Parameter	Value	Units
RF Connector	2.4mm Female	
LO Connector	2.92mm Female	
IF Connector	SMA Female	
DC Supply	Solder Pin	
Size	40x25x12.5	mm

Absolute Maximum Ratings:

Parameter	Value
RF Input Power	24 dBm
DC Supply Voltage	+15V
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm



Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	0		+50	°C
Non-operating Temperature	-45		+85	°C
Relative humidity		95		%
Altitude	10,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Base Number	Description	Revision
TLAMCM-018040-18-4	Active Tx/Rx Converter, RF:18-40GHz,LO:4.5-10GHz,IF:DC-18GHz	Rev.1.1