

Model: TLHM-170260-0240-04

Sub-Harmonic Mixer

RF:170-260 GHz,LO:85-130GHz,IF:DC-40 GHz

Feature:

- Low LO Power Requirement
- Subharmonic Mixing
- Compact Package

Electrical Specifications:

Parameter	Min	Typ	Max	Units
RF Frequency	170		260	GHz
LO Frequency	85		130	GHz
IF Frequency	DC		40	GHz
LO-Input power	6	8	10	dBm
RF Input Power			0	dBm
RF VSWR		3		:1
SSB Conversion Loss		-12		dB

Mechanical Specifications:

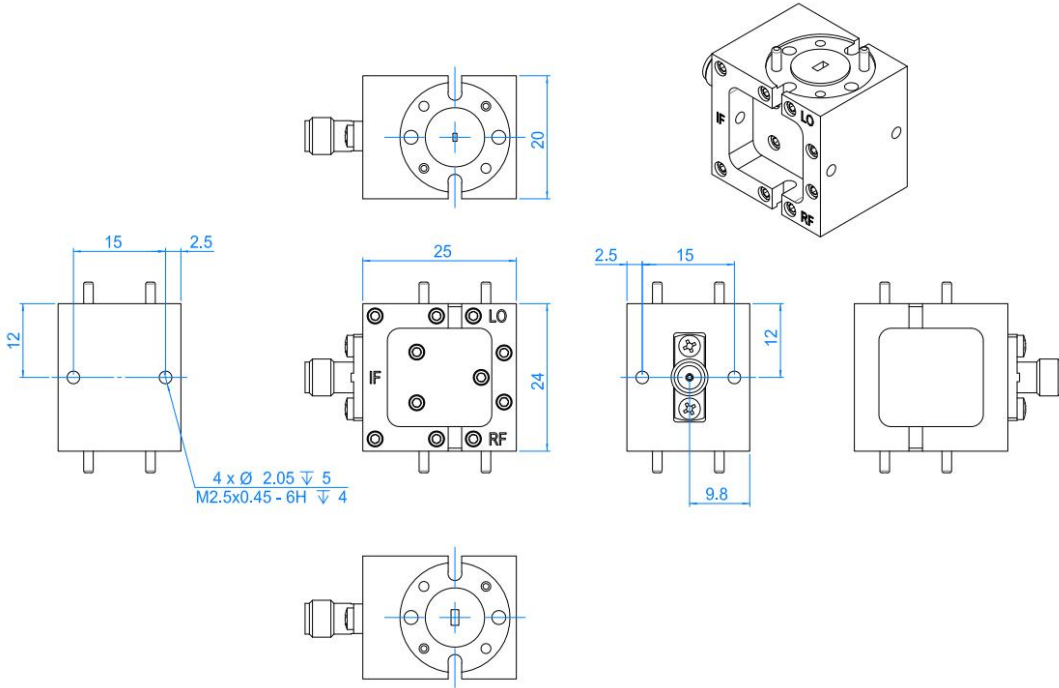
Parameter	Value	Units
RF Connector	WR-4.3/UG-387	
LO Connector	WR-08/UG-387	
IF Connector	2.92mm Female	
Size	25*27.1*19.1	mm

Absolute Maximum Ratings:

Parameter	Value
RF Input Power	0dBm
LO Input Power	11dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit: mm



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

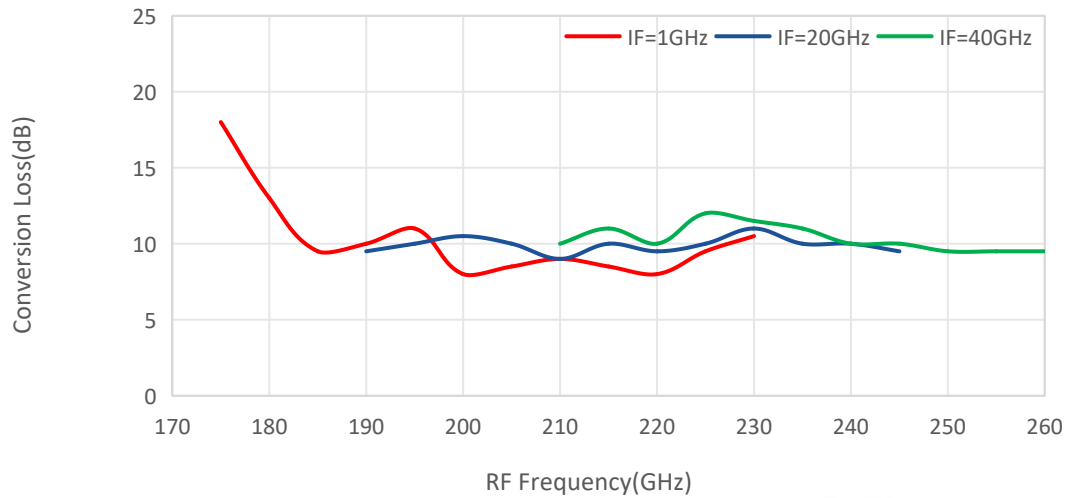
Parameter	Min	Typ	Max	Units
Operating Temperature	0		+40	°C
Non-operating Temperature	-25		+65	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Part Number	Description	Revision
TLHM-170260-0240-04	Subharmonically Mixer RF:170-260GHz,LO:85-130GHz,IF:DC-40GHz	Rev.1.1

Typical Performance Data:

Conversion Loss vs RF Frequency



Conversion Loss vs RF Frequency

