

Model: TLHM-220330-0240-03
Sub-Harmonic Mixer
RF:220-330 GHz,LO:110-165GHz,IF:DC-40 GHz
Feature:

- Low LO Power Requirement
- Subharmonic Mixing
- Compact Package

Electrical Specifications:

Parameter	Min	Typ	Max	Units
RF Frequency	220		330	GHz
LO Frequency	110		165	GHz
IF Frequency	DC		40	GHz
LO-Input power		10		dBm
RF Input Power		-15	0	dBm
2XLO to RF Isolation		-20		dBc
SSB Conversion Loss	-15	-12	-10	dB

Mechanical Specifications:

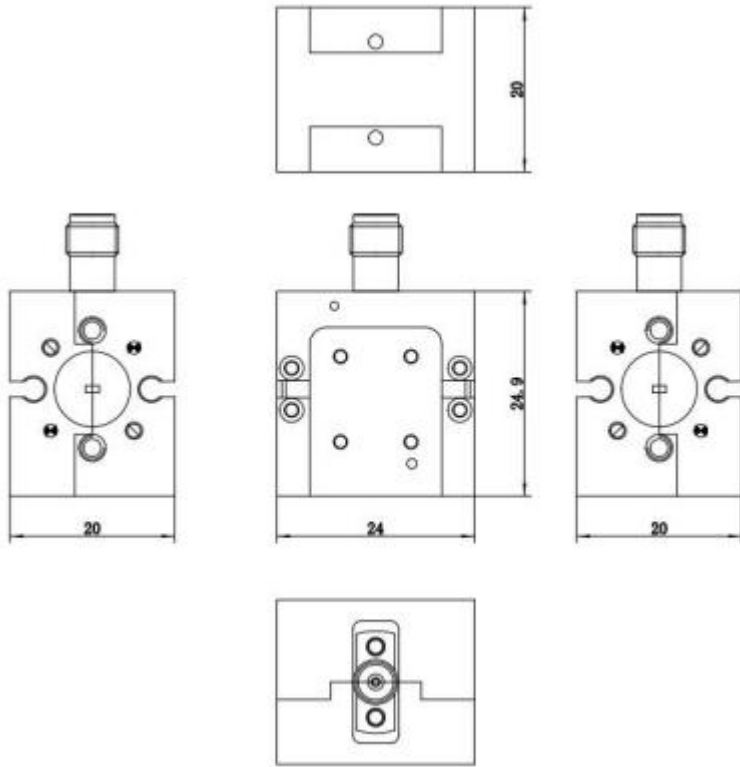
Parameter	Value	Units
RF Connector	WR-3/UG-387	
LO Connector	WR-6.5/UG-387	
IF Connector	2.92mm Female	
Size	24*24.9*20	mm

Absolute Maximum Ratings:

Parameter	Value
RF Input Power	0dBm
IF Input Power	0dBm
LO Input Power	15dBm
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		+50	°C
Non-operating Temperature	-25		+85	°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-220330-0240-03	Subharmonically Mixer RF:220-330GHz,LO:110-165GHz,IF:DC-40GHz	Rev.1.1

Typical Performance Data:

Conversion Loss vs RF Frequency

