

Model: TLHM-110170-0230-06

Sub-Harmonic Mixer

RF:110-170 GHz,LO:55-85GHz,IF:DC-30 GHz

Feature:

- Low LO Power Requirement
- Subharmonic Mixing
- Compact Package

Electrical Specifications:

Parameter	Min	Typ	Max	Units
RF Frequency	110		170	GHz
LO Frequency	55		85	GHz
IF Frequency	DC		30	GHz
LO-Input power		10		dBm
RF Input VSWR		3		:1
SSB Conversion Loss		-10		dB

Mechanical Specifications:

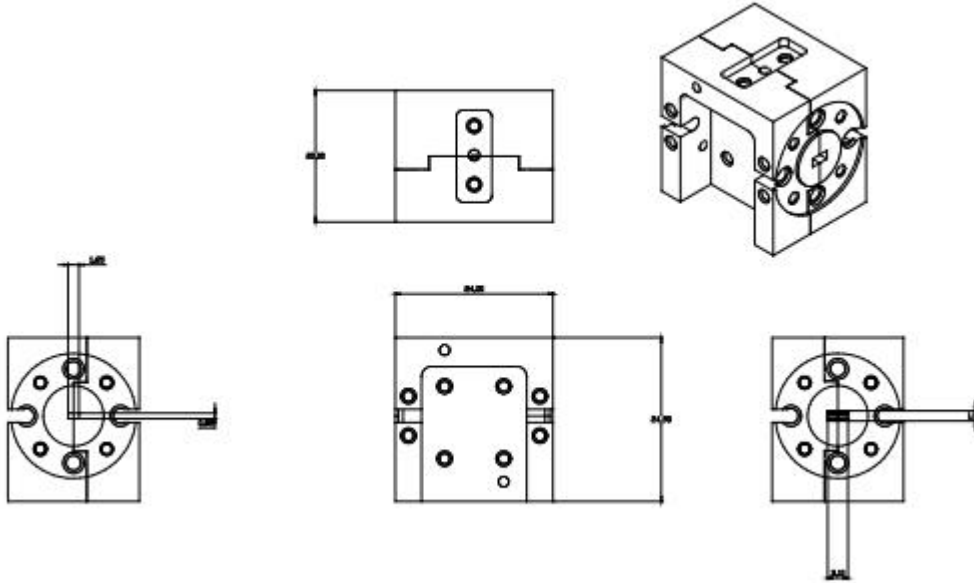
Parameter	Value	Units
RF Connector	WR-06/UG-387	
LO Connector	WR-12/UG-387	
IF Connector	2.92mm Female	
Size	24*24.9*20	mm

Absolute Maximum Ratings:

Parameter	Value
RF Input Power	+6dBm
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-110170-0230-06	Subharmonically Mixer RF:110-170GHz,LO:55-85GHz,IF:DC-30GHz	Rev.1.1