

Model: TLHM-110170-10-06

Harmonic Mixer,D-Band

RF:110-170 GHz,LO:11-17GHz,IF:DC-1.5GHz

Feature:

- Low LO Power Requirement
- Subharmonic Mixing
- Compact Package

Electrical:

Parameter	Min.	Typ.	Max.	Units
RF Frequency	110		170	GHz
LO Frequency	11		17	GHz
IF Frequency	DC		1.5	GHz
LO Power	12	15	18	dBm
Harmonics		10		dBc
Input power			0	dBm
RF VSWR		3.0		:1
SSB Conversion Loss	22	26	35	dB

Mechanical :

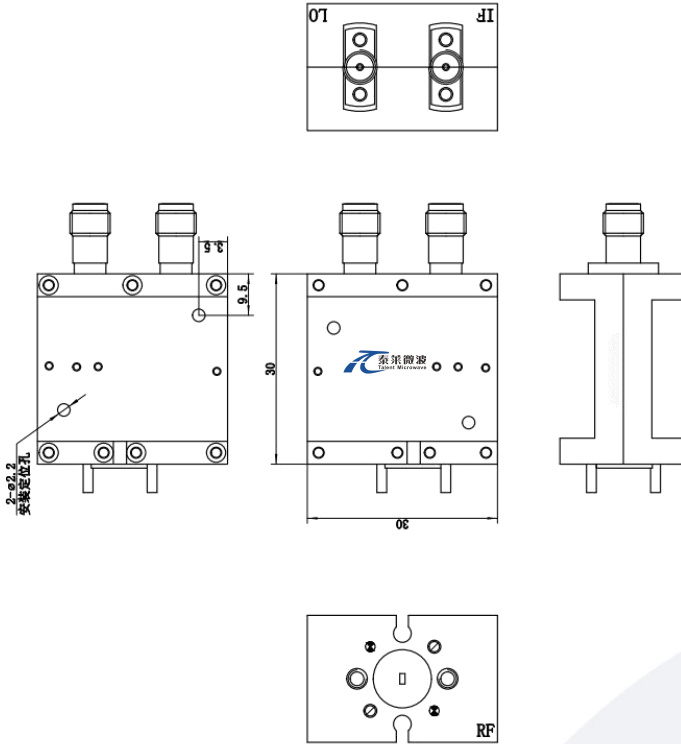
Parameter	Value	Units
RF Connector	WR-06/UG-387	
LO Connector	SMA Female	
IF Connector	SMA Female	
Size	28*25*20(without port)	mm
Weight	200	g

Absolute Maximum Ratings:

Parameter	Value
RF Input Power	TBD
LO Input Power	18 dBm
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-110170-10-06	Harmonically Mixer,D-Band RF:110-170GHz,LO:11-17GHz,IF:DC-1.5GHz	Rev.1.1