

Model: TMLA-110170-2040-06

Terahertz Low Noise Amplifier
110-170GHz, NF:4.0 dB, Gain:19dB

Feature:

- Ultra Wide Band: 110-170 GHz
- Gain: 19dB Typ
- Noise Figure:4.0dB Typ
- Unconditional stability

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	110		170	GHz
Gain		19		dB
Noise Figure		4		dB
Output P1dB		0		dBm
DC Voltage		+12		V DC
DC power supply		15		mA

Mechanical Specifications:

Parameter	Value	Units
Input Connector	WR-06/ UG-387/U	
Output Connector	WR-06/ UG-387/U	
Power Supply Pin	Solder Pin	
Size	35*30*22	mm

Absolute Maximum Ratings:

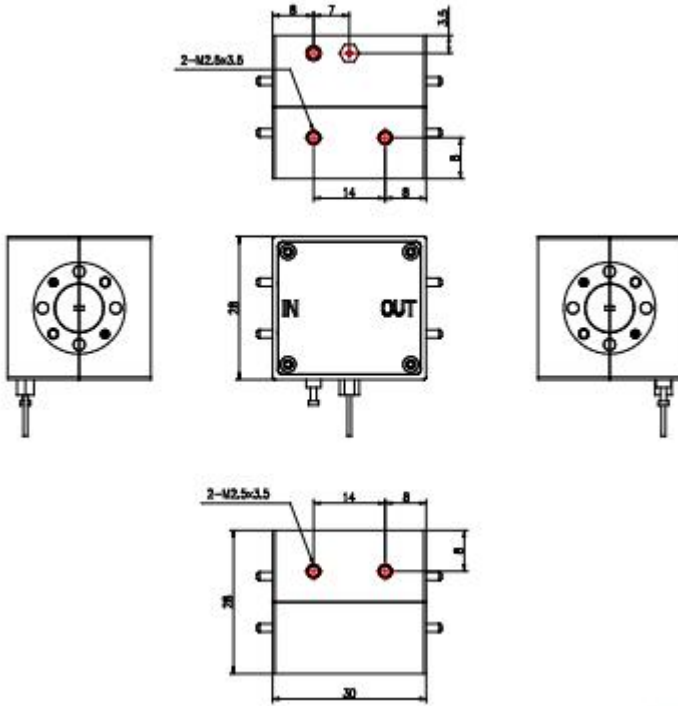
Parameter	Value
Supply Bias Voltage	+15 V
RF Input Power	10dBm
ESD sensitivity (HBm)	Class 0, passed 150V



**Available 220V System
Benchtop Amplifier**

Outline Drawing:

Unit: Inches(mm)



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

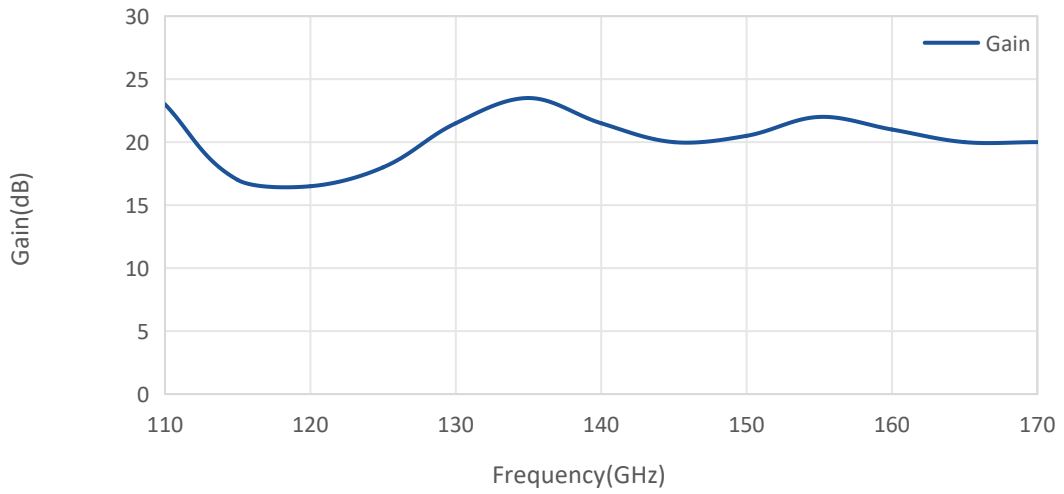
Parameter	Min	Typ	Max	Units
Operating Temperature	-55		+85	°C
Non-operating Temperature	-45		+125	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Part Number	Description	Revision
TMLA-110170-2040-06	Low Noise Amplifier,110-170GHz, Noise Figure:4.0dB, Gain:19dB,+12V DC,WR-06	Rev.1.1

Typical Performance Data:

Gain vs Frequency



Noise Figure vs Frequency

