

**Model: TMLA-110170-3560-06**
**Terahertz Low Noise Amplifier**  
**110-170GHz, NF:4.8 dB, Gain:33 dB**
**Feature:**

- Ultra Wide Band: 110-170 GHz
- Gain: 33dB Typ
- Noise Figure:4.8dB Typ
- Unconditional stability

**Electrical Specifications:**

Parameter	Min	Typ	Max	Units
Frequency range	110		170	GHz
Gain		33		dB
Noise Figure		4.8		dB
Output P1dB		0		dBm
Input VSWR		2.5		:1
Output VSWR		2		:1
DC Voltage		+7		V DC
DC power supply		53		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	/	mm

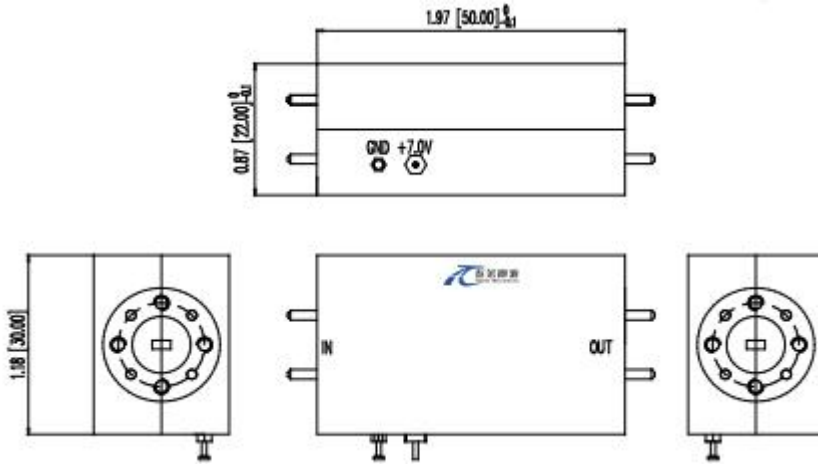
**Absolute Maximum Ratings:**

Parameter	Value
Supply Bias Voltage	+7 V
RF Input Power	TBD
ESD sensitivity (HBm)	Class 0, passed 150V


**Available 220V System  
 Benchtop Amplifier**

**Outline Drawing:**

Unit: Inches(mm)



**Environmental Conditions:**

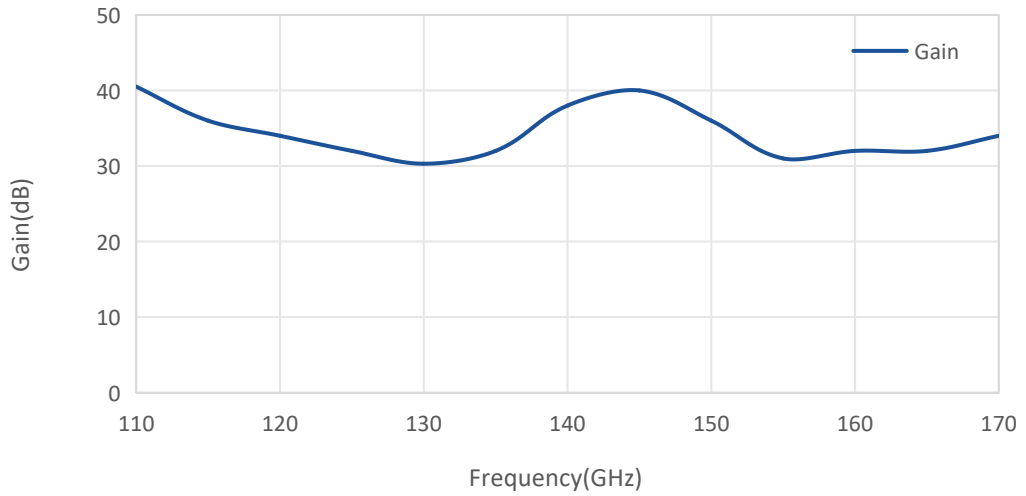
Parameter	Min	Typ	Max	Units
Operating Temperature	-55		+85	°C
Non-operating Temperature	-45		+125	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

**Ordering Information:**

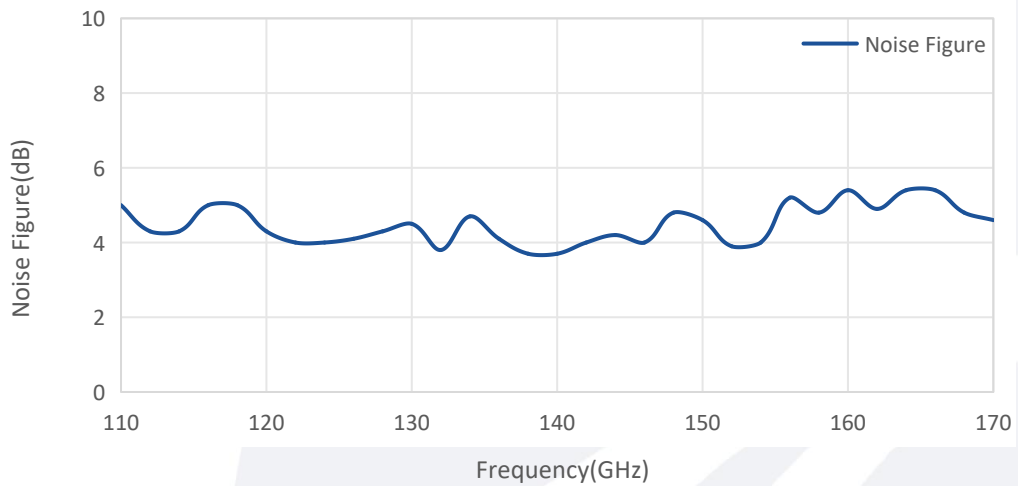
Part Number	Description	Revision
TMLA-110170-3560-06	Low Noise Amplifier,110-170GHz, Noise Figure:4.8dB, Gain:33dB,+7V DC,WR-06	Rev.1.1

Typical Performance Data:

Gain vs Frequency



Noise Figure vs Frequency



VSWR vs Frequency

