

**Model: TMLA-195230-2568-04**

**Low Noise Amplifier**  
**195-230GHz, NF:6.8 dB, Gain:22dB**

**Feature:**

- Ultra Wide Band: 195-230 GHz
- Gain: 22dB Typ
- Noise Figure:6.8dB Typ
- Unconditional stability

**Electrical Specifications:**

Parameter	Min	Typ	Max	Units
Frequency range	195		230	GHz
Gain		22		dB
Noise Figure		6.8		dB
Input VSWR		2		:1
Output VSWR		2.5		:1
DC Voltage		+5		V DC
DC power supply		40		mA

**Mechanical Specifications:**

Parameter	Value	Units
Input Connector	WR-04/ UG-387/U	
Output Connector	WR-04/ UG-387/U	
Power Supply Pin	Solder Pin	
Size	/	mm

**Absolute Maximum Ratings:**

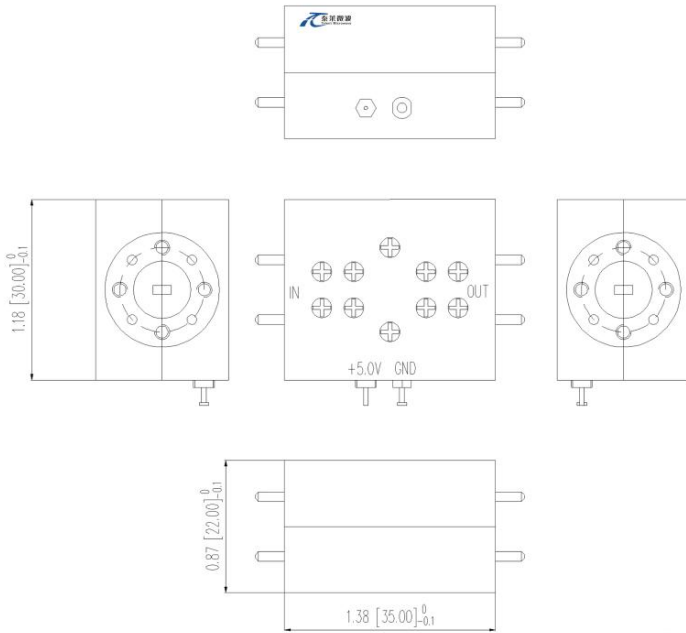
Parameter	Value
Supply Bias Voltage	+5 V
RF Input Power	TBD
ESD sensitivity (HBm)	Class 0, passed 150V



**Available 220V System  
Benchtop Amplifier**

**Outline Drawing:**

Unit: Inches(mm)



**Environmental Conditions:**

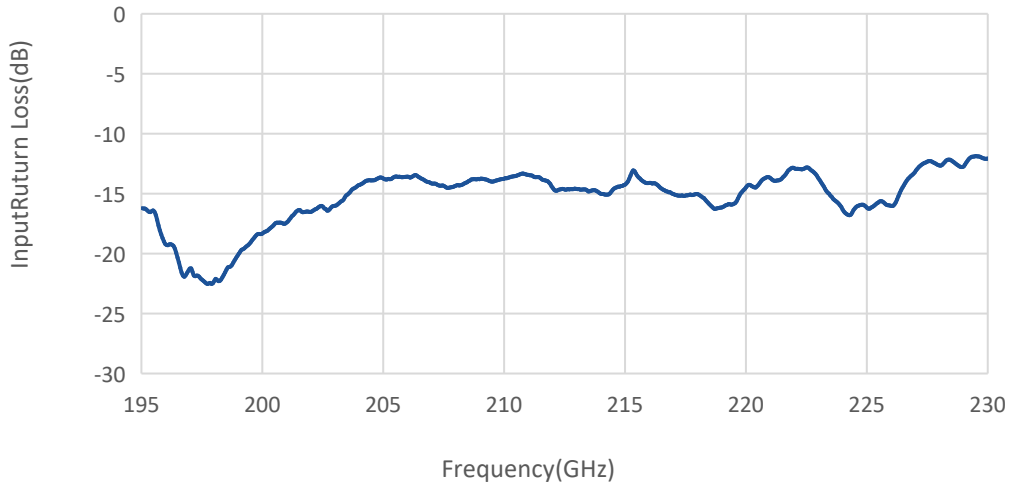
Parameter	Min	Typ	Max	Units
Operating Temperature	-55		+85	°C
Non-operating Temperature	-45		+125	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

**Ordering Information:**

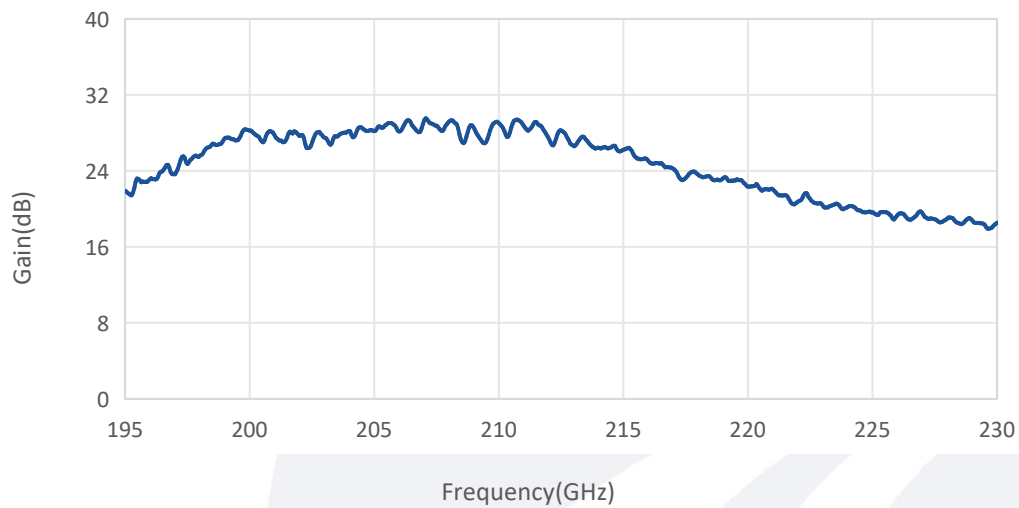
Part Number	Description	Revision
TMLA-195230-2568-04	Low Noise Amplifier,195-230GHz, Noise Figure:6.8dB, Gain:22dB,+5V DC,WR-04	Rev.1.1

Typical Performance Data:

**Input Return Loss vs Frequency**



**Gain vs Frequency**



**Psat vs Frequency**

