

**Model: TMLA-075110-3040-10**
**Low Noise Amplifier**  
**75-110GHz, NF:4.0 dB, Gain:30 dB**
**Feature:**

- Ultra Wide Band: 75-110 GHz
- Gain: 30dB Typ
- Noise Figure:4.0dB Typ
- Unconditional stability

**Electrical Specifications:**

Parameter	Min	Typ	Max	Units
Frequency range	75		110	GHz
Gain		30		dB
Noise Figure		4		dB
Output P1dB		6		dBm
Input VSWR		2		:1
Output VSWR		2		:1
DC Voltage		+5		V DC
DC power supply		180		mA

**Mechanical Specifications:**

Parameter	Value	Units
Input Connector	WR-10/ UG-387/U	
Output Connector	WR-10/ UG-387/U	
Power Supply Pin	Solder Pin	
Size	45*30*24	mm

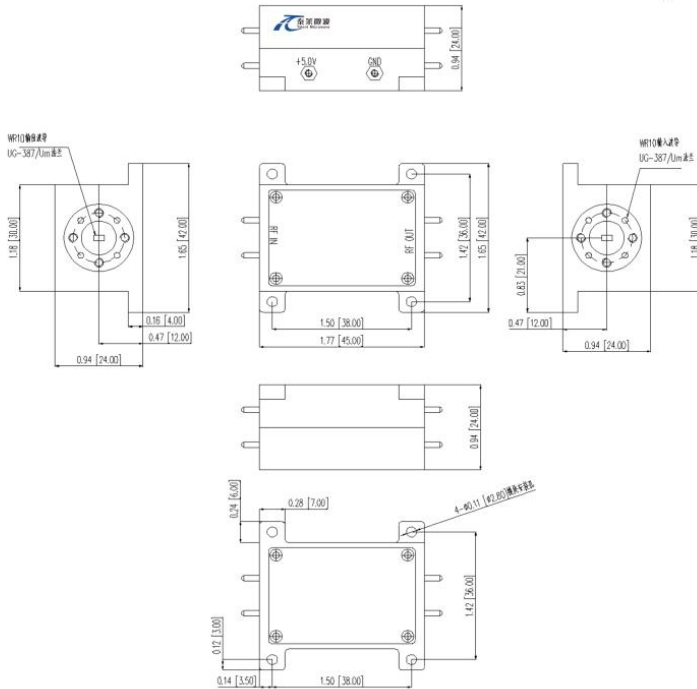
**Absolute Maximum Ratings:**

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:**

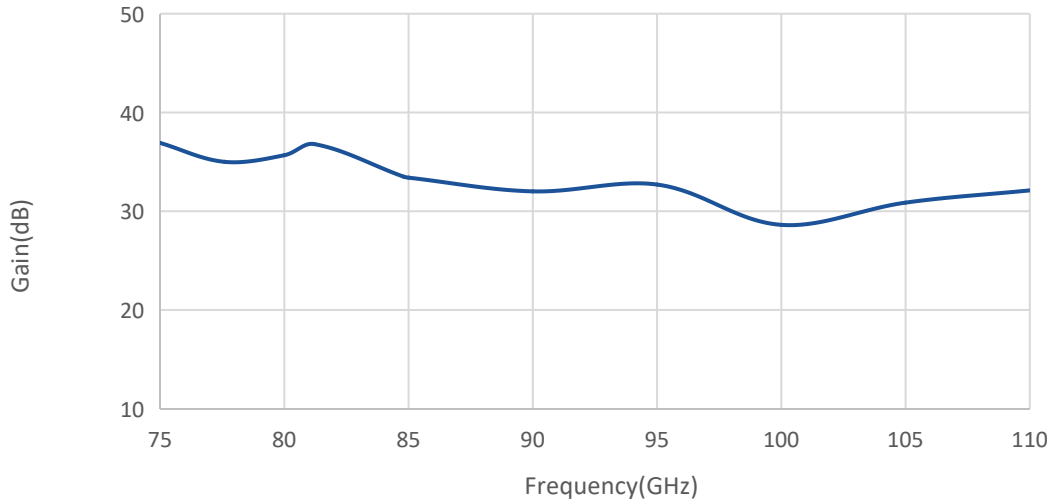
Parameter	Min	Typ	Max	Units
Operating Temperature	0		+65	°C
Non-operating Temperature	-55		+85	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

**Ordering Information:**

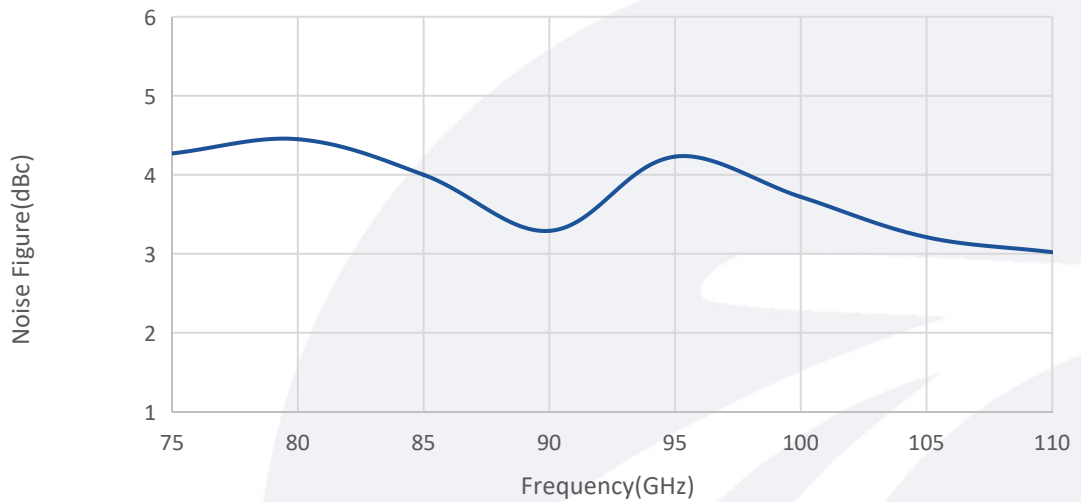
Part Number	Description	Revision
TMLA-075110-3040-10	Low Noise Amplifier,75-110GHz, Noise Figure:4.0dB, Gain:30dB,+5V DC,WR-10	Rev.1.1

Typical Performance Data:

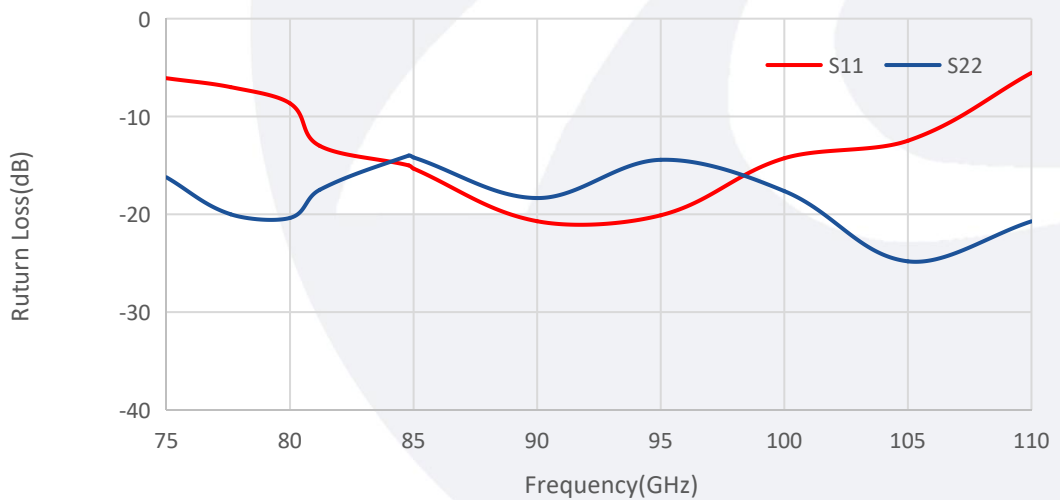
Gain vs Frequency



Noise Figure vs Frequency



Return Loss vs Frequency



Typical Performance Data:

P1dB vs Frequency

