

Model: TMLA-075110-3550-10-E
Low Noise Amplifier
75-110GHz, NF:5.0 dB, Gain:35 dB
Feature:

- Ultra Wide Band: 75-110 GHz
- Gain:35dB Typ
- Noise Figure:5.0dB Typ
- Unconditional stability

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	75		110	GHz
Gain		35		dB
Gain Flatness		±2		dB
Noise Figure		5.0		dB
Output P1dB		8		dBm
Input VSWR		2		:1
DC Voltage		+12		V DC
DC power supply		50		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	38.1*27.94*19.05	mm

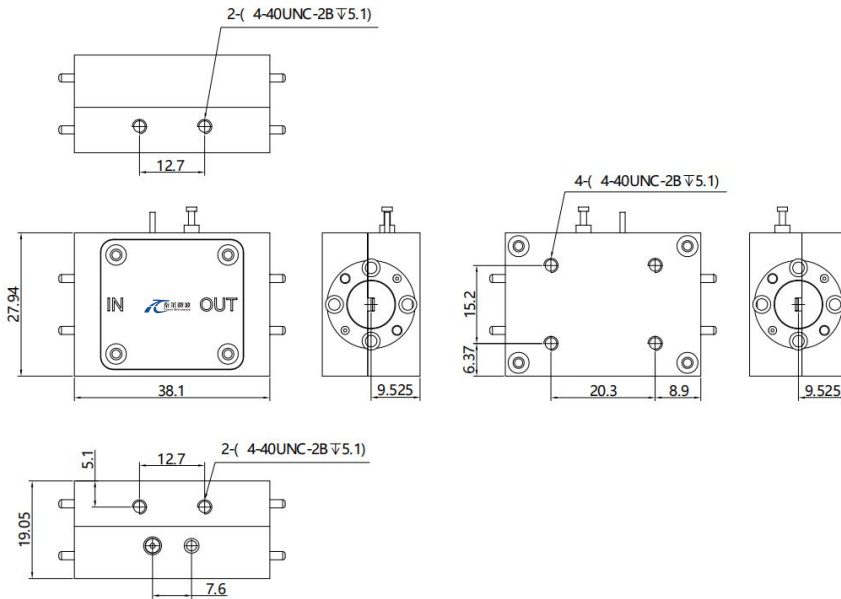
Absolute Maximum Ratings:

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


**Available 220V System
 Benchtop Amplifier**

Outline Drawing:

Unit: mm



Environmental Conditions:



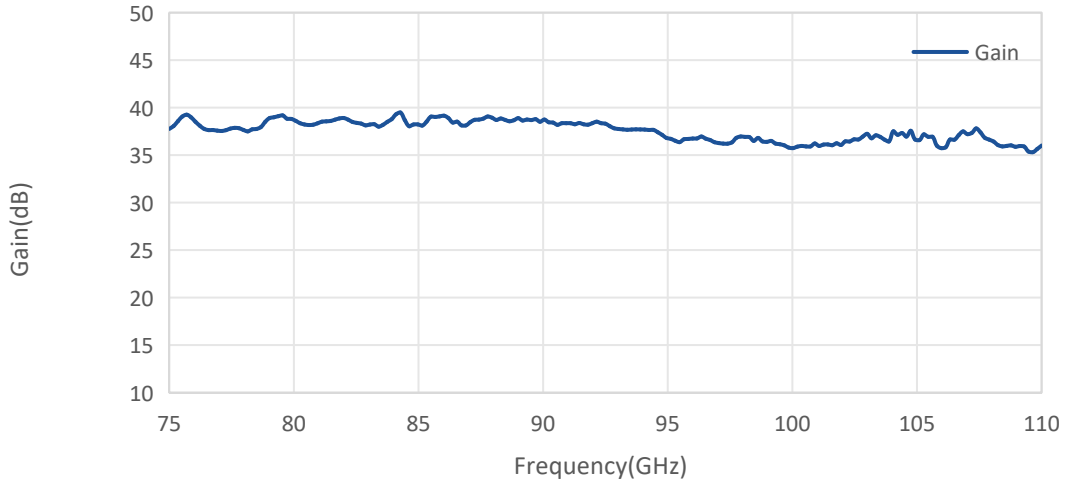
Parameter	Min	Typ	Max	Units
Operating Temperature	0		+65	°C
Non-operating Temperature	-45		+125	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

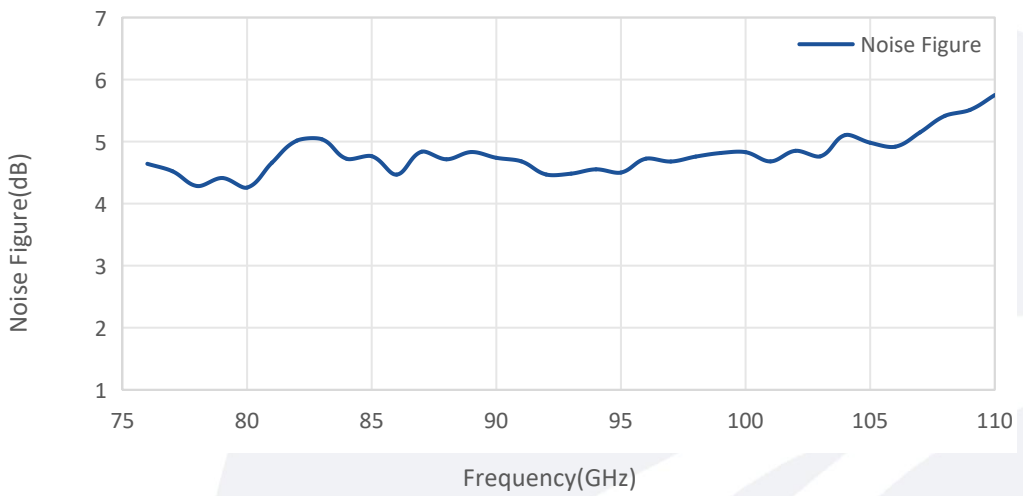
Part Number	Description	Revision
TMLA-075110-3550-10-E	Low Noise Amplifier,75-110GHz, Noise Figure:5.0dB, Gain:35dB,+12V DC,WR-10	Rev.1.1

Typical Performance Data:

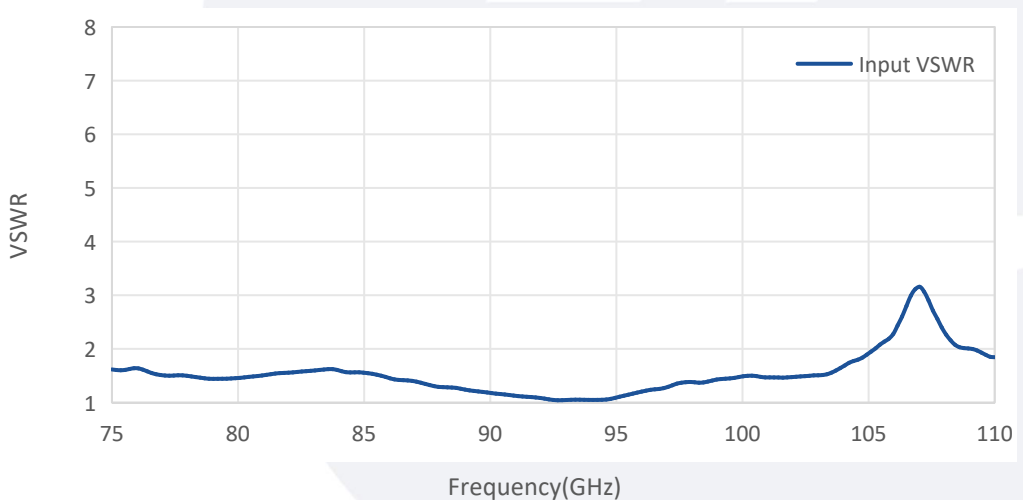
Gain vs Frequency



Noise Figure vs Frequency



VSWR vs Frequency



Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.