泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
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Model: TMLA-075110-2304-10-Cryo

Cryogenic Low Noise Amplifier 75-110GHz, NF:3.5 dB, Gain:23 dB

Feature:

- Ultra Wide Band: 75-110 GHz
- Gain: 23dB Typ
- Noise Figure:3.5dB Typ
- Good Power and Gain Glatness
- Using InP HEMT technology

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range		75-110		GHz
Gain		23		dB
Gain Flatness		±1.5		dB
Noise Figure		3.5		dB
Output P1dB		-5		dBm
Input VSWR		2.0		:1
Output VSWR		2.0		:1
DC power		Vd=1.0V,Id=35mA Vgs=-0.3V		V DC

Mechanical Specifications:

Parameter	Value	Units
Input/Output Connector	WR-10/ UG-387/U	
Bias	Solder Pin	
Case Material	Copper	
Finish	Gold Plated	
Size	30*20*20	mm
Weight	45	g

Absolute Maximum Ratings:

Parameter	Value
Drain voltage	2 V
Input Drain Current	100 mA
Gate voltage	0 V
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Available 220V System Benchtop Amplifier

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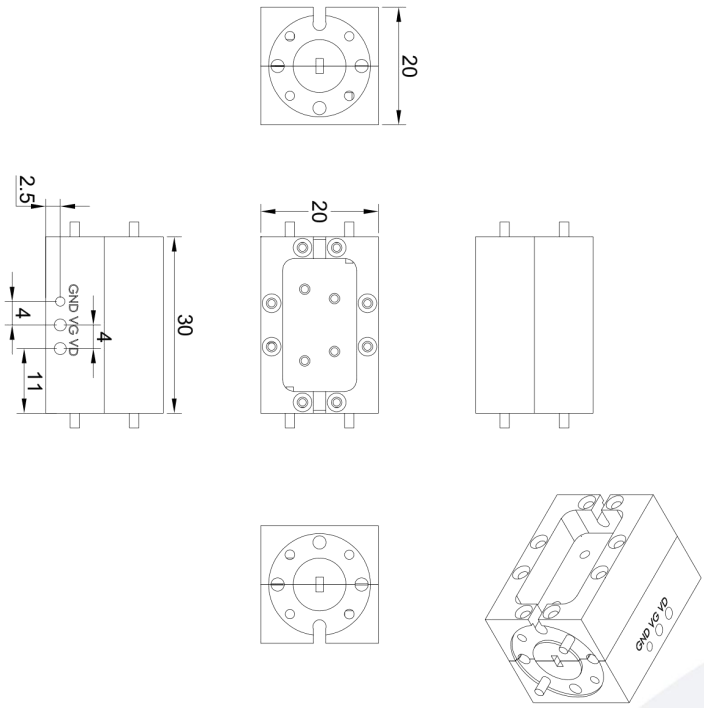
Outline Drawing:

Unit: mm



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ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	℃
Non-operating Temperature	-55		+85	℃
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-075110-2304-10-Cryo	Cryogenic Low Noise Amplifier 75-110GHz, Noise Figure:3.5dB, Gain:23dB,WR-10	Rev.1.1

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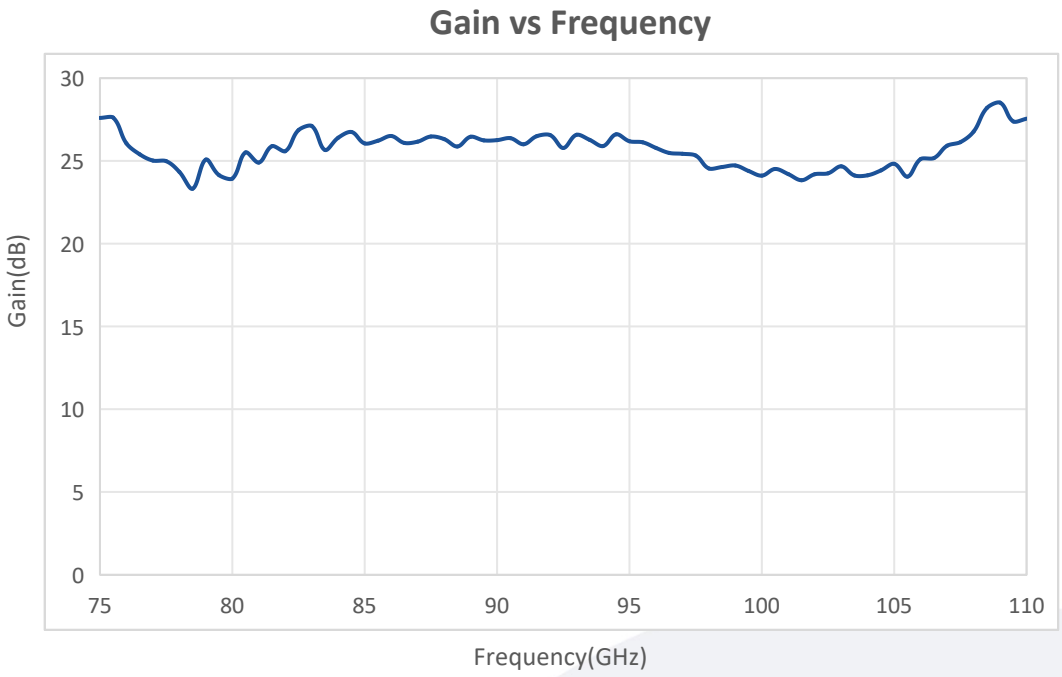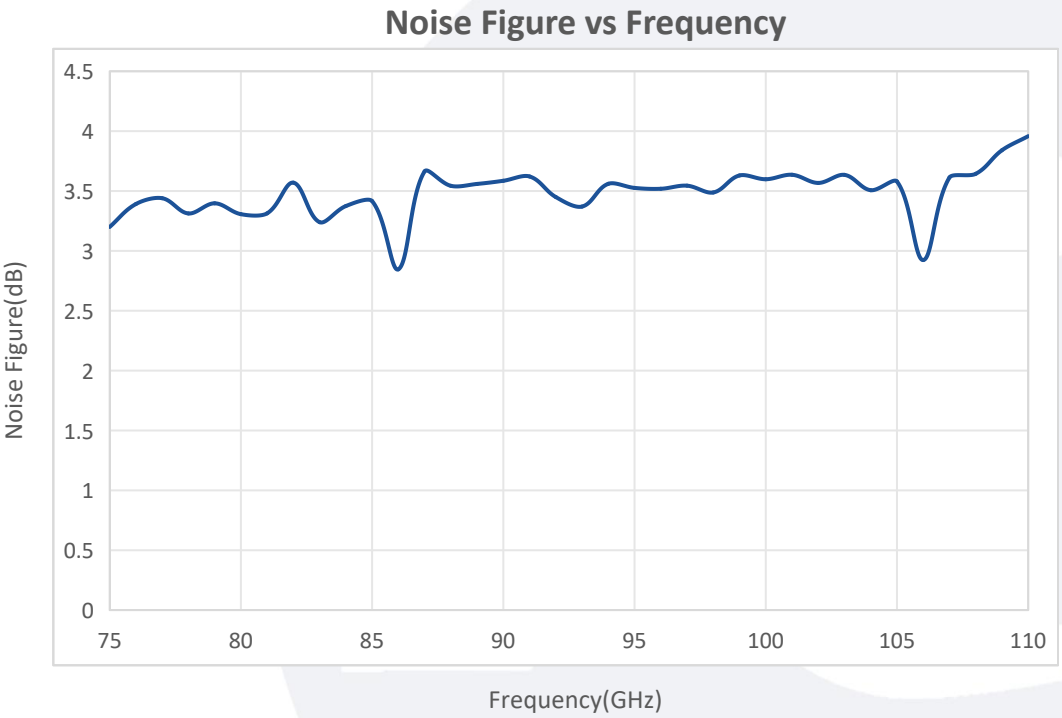
Typical Performance Data: