泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
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sales@talentmw.com
www.talentmw.com

Model:TLPA20M3G-38-28

Power Amplifier 20M-3GHz,Gain:38dB,P1dB:28dBm

Feature:

- Ultra Wide Band: 0.02G-3GHz
- Gain: 35dB Min
- Psat Output Power: 28 dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range		0.02-3		GHz
Gain	35	38		dB
Gain Flatness			±3	dB
Output P1dB	28			dBm
Output Psat	29			dBm
Input VSWR		1.5	2	:1
DC Voltage		+12		V DC
DC Supply Current		1000		mA
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female	
DC Bias	Solder Pin	
Size	120*80*22	mm
Weight	200	g

Available 220V System Benchtop Amplifier

Absolute Maximum Ratings:

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

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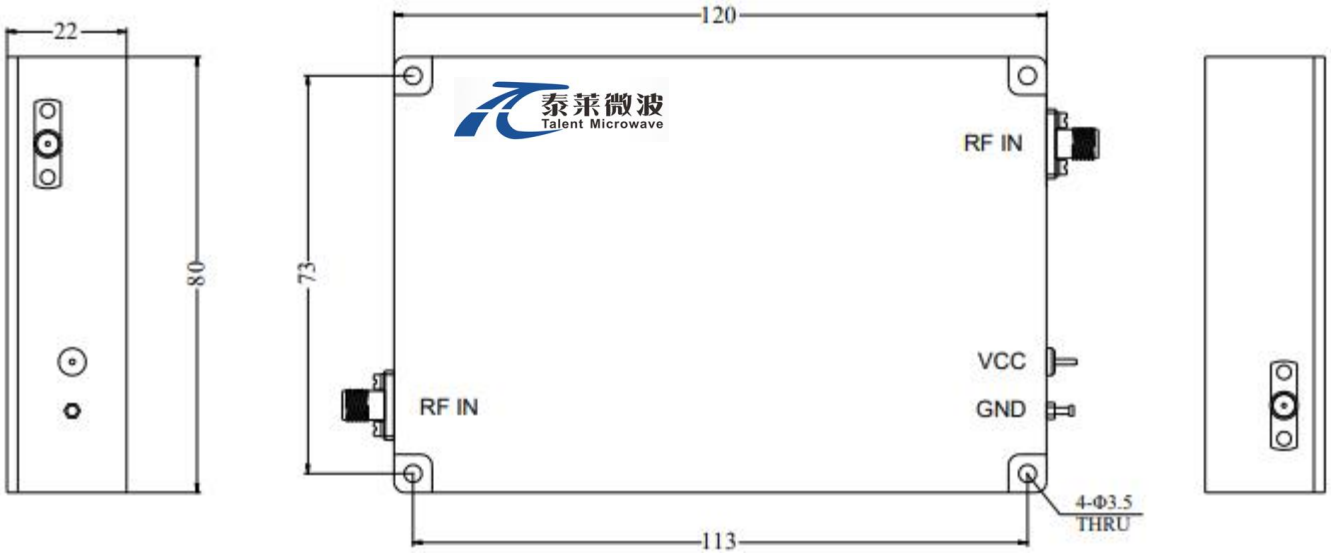
Outline Drawing:

Unit: mm



***Heat Sink Required During Operation

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	℃
Non-operating Temperature	-55		+125	℃
Relative humidity		95		%
Altitude	30,000			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
TLPA20M3G-38-28	Power amplifier 20MHz-3GHz,Gain:38dB,P1dB:28dBm,+12V DC,Without Heatsink.	Rev.1.1
TLPA20M3G-38-28-HS	Power amplifier 20MHz-3GHz,Gain:38dB,P1dB:28dBm,+12V DC,With Heatsink.	Rev.1.1

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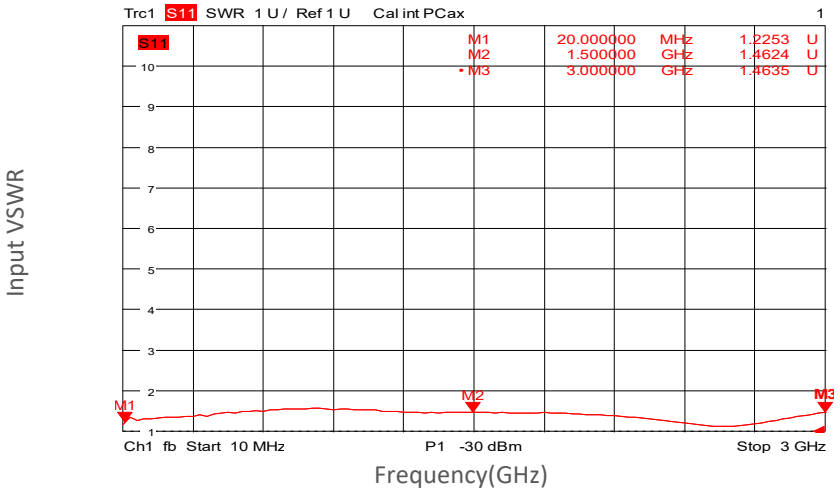
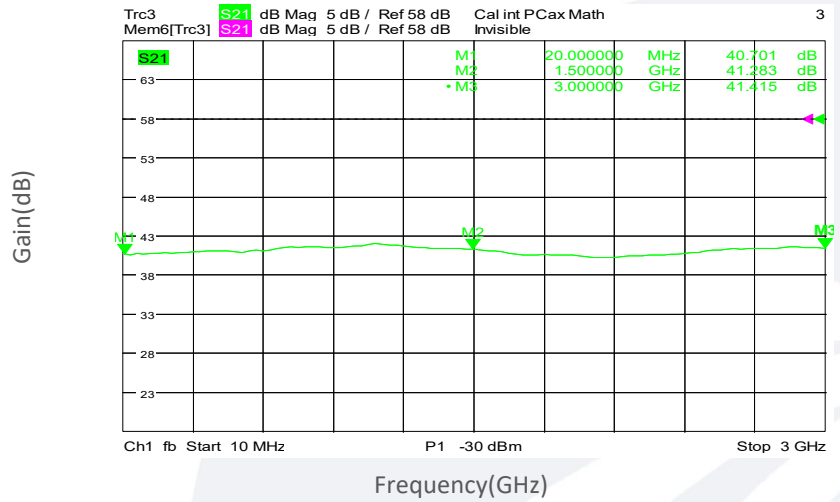
Typical Performance Data:

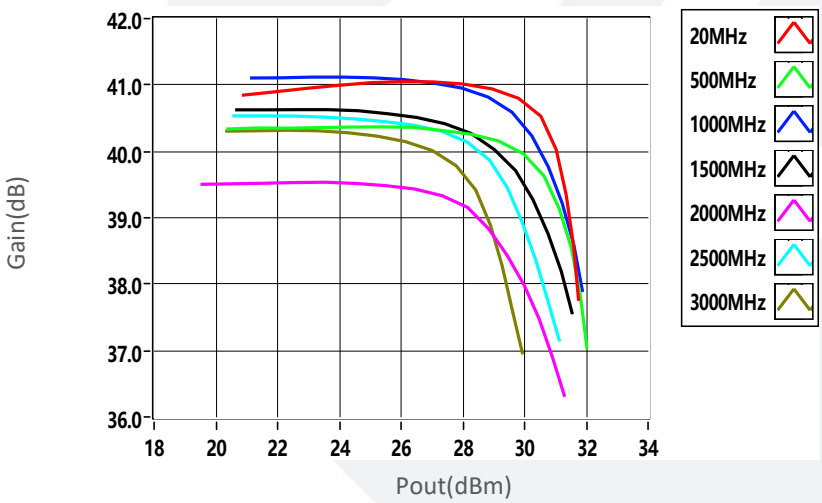
Input VSWR vs Frequency



Gain vs Frequency



Gain vs Output Power



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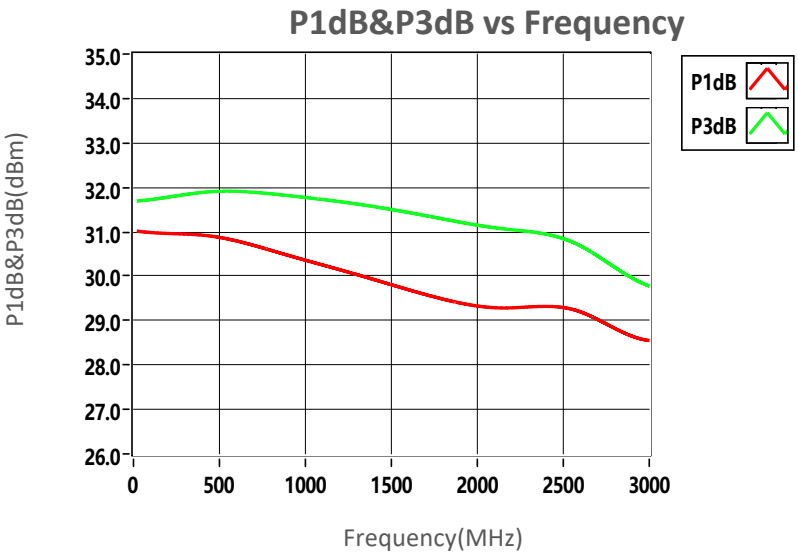

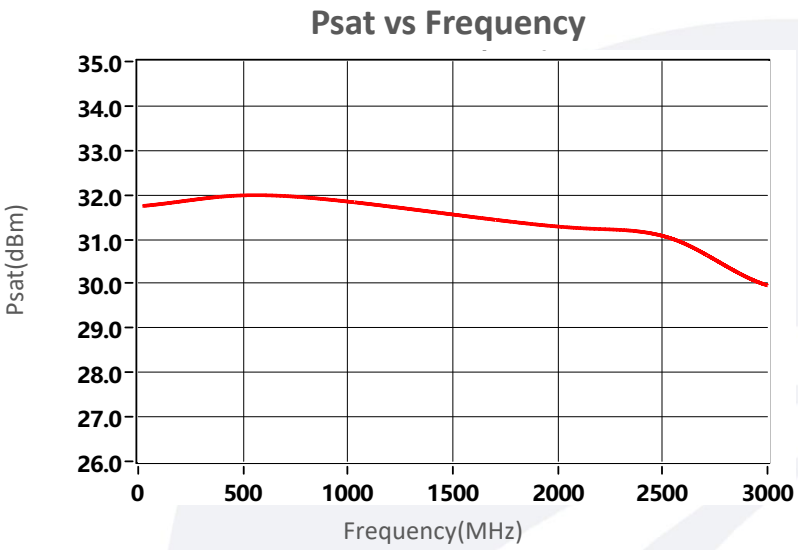

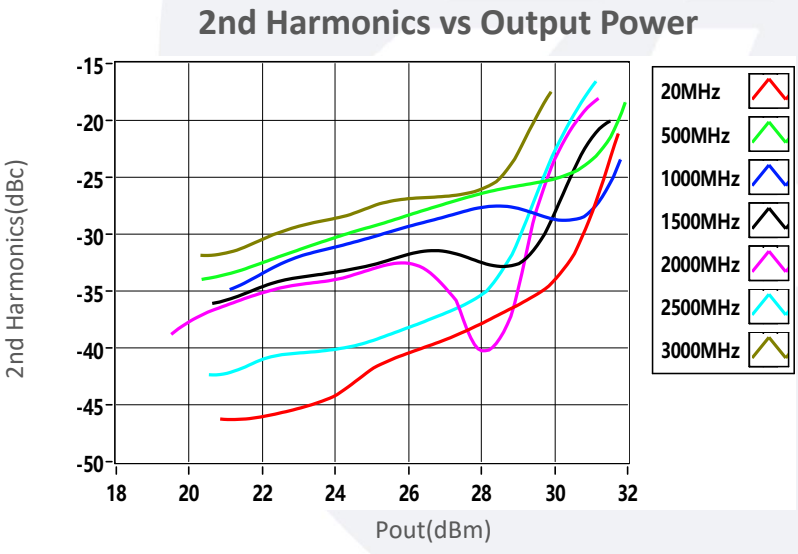

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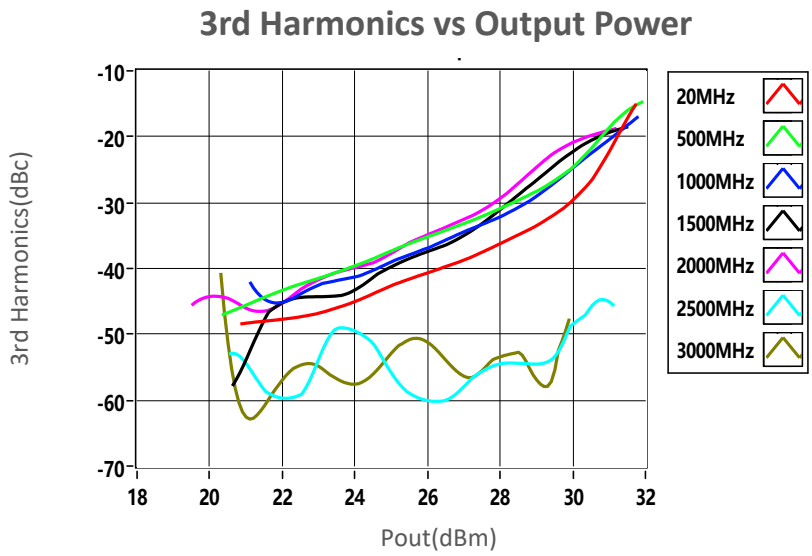
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