泰莱微波
Talent Microwave

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+86-0512-62657975
sales@talentmw.com
www.talentmw.com

Model:TLPA80M1000M-48-48

Power Amplifier 0.08-1GHz,Gain:48dB,Psat:48dBm

Feature:

- Ultra Wide Band: 0.08-1GHz
- Gain: 48 dB Min
- Psat Output Power: 48 dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range		0.08-1		GHz
Gain	48	52		dB
Gain Flatness		±2	±3	dB
Output P1dB		46		dBm
Output Psat	48	48.5		dBm
Input VSWR		1.5	2.0	:1
DC Voltage		+28		V DC
DC Supply Current		1.5	10	A
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	D-SUB-9	
Size	170*80*20	mm
Weight	200	g

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+30 V
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Available 220V System Benchtop Amplifier

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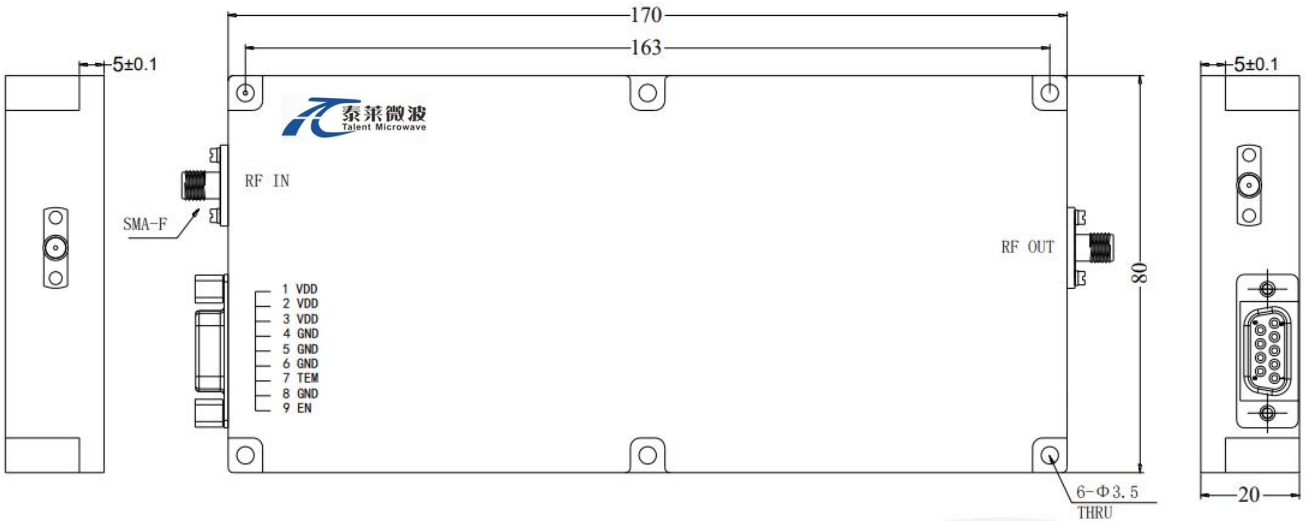
Outline Drawing:

Unit: mm



***Heat Sink Required During Operation

OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

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)	20g,11ms,saw-tooth			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Part Number	Description	Revision
TLPA80M1000M-48-48	Power amplifier 0.08-1GHz,Gain:48dB,Psat:48dBm, +28V DC,Without Heatsink	Rev.1.1
TLPA80M1000M-48-48-HS	Power amplifier 0.08-1GHz,Gain:48dB,Psat:48dBm, +28V DC,With Heatsink	Rev.1.1

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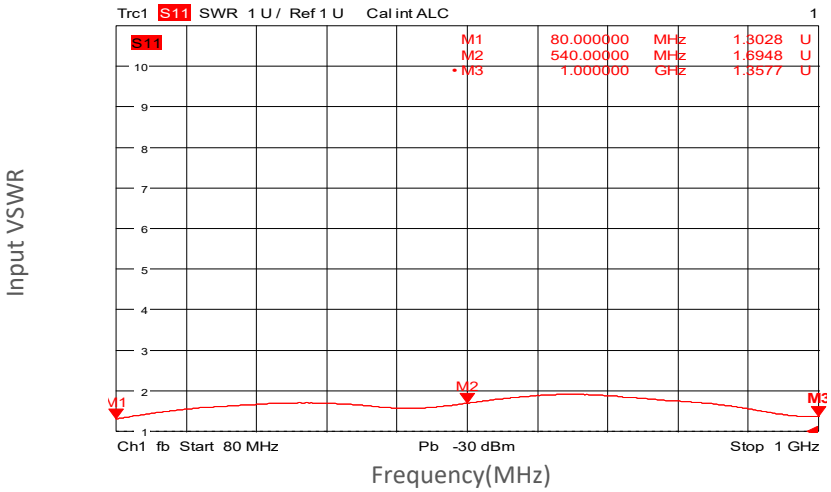
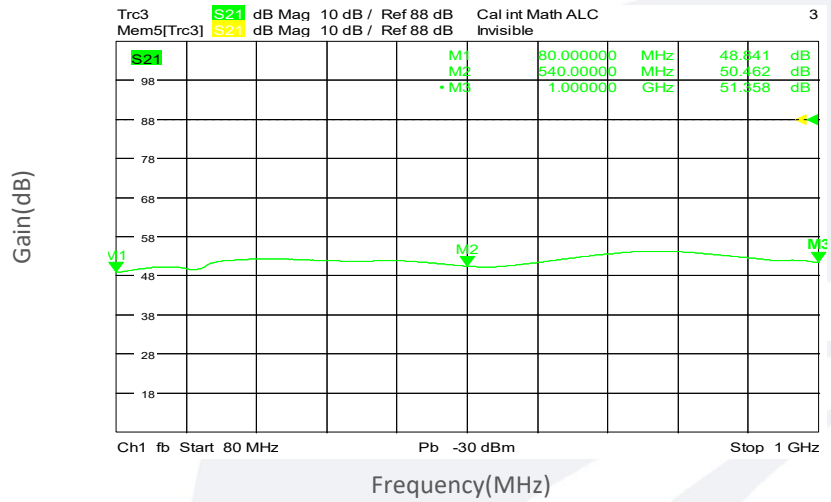
Typical Performance Data:

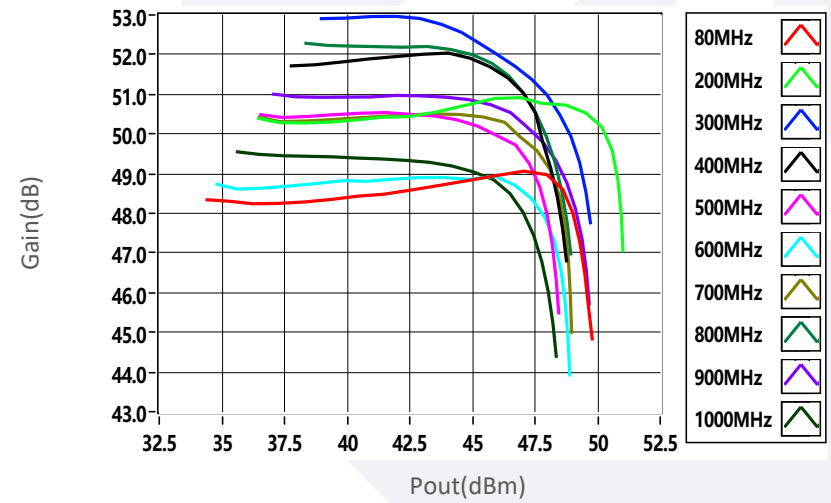
Input VSWR vs Frequency



Gain vs Frequency



Gain vs Output Power



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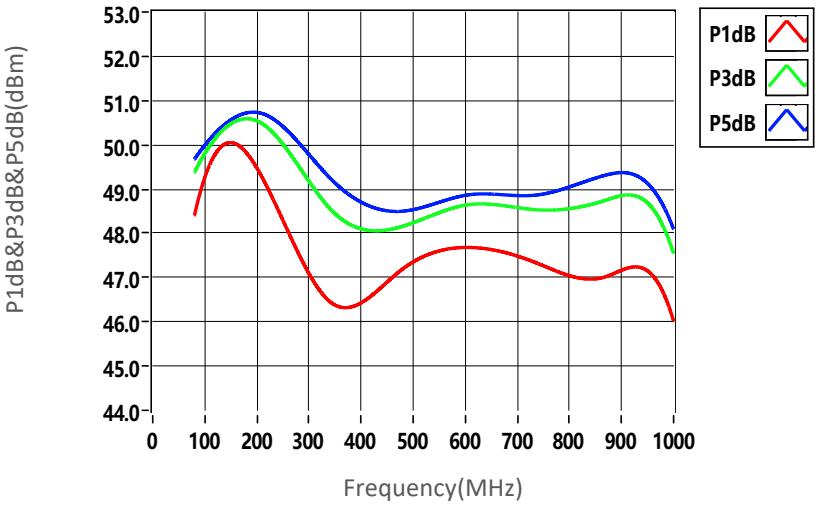
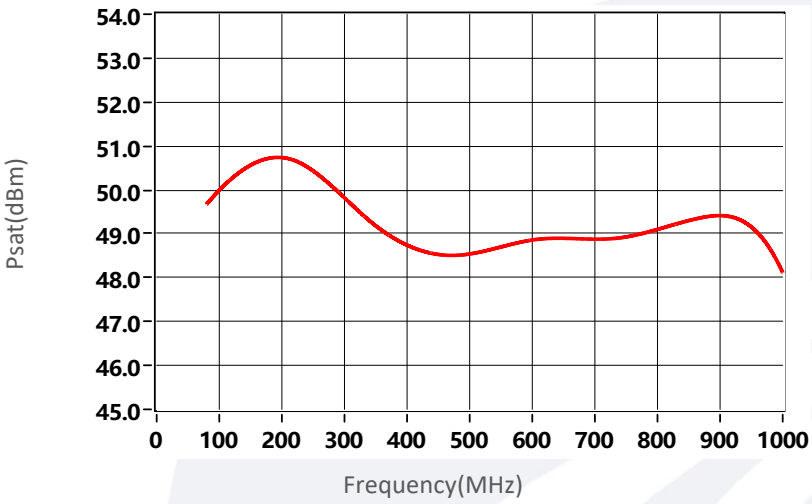
Typical Performance Data:

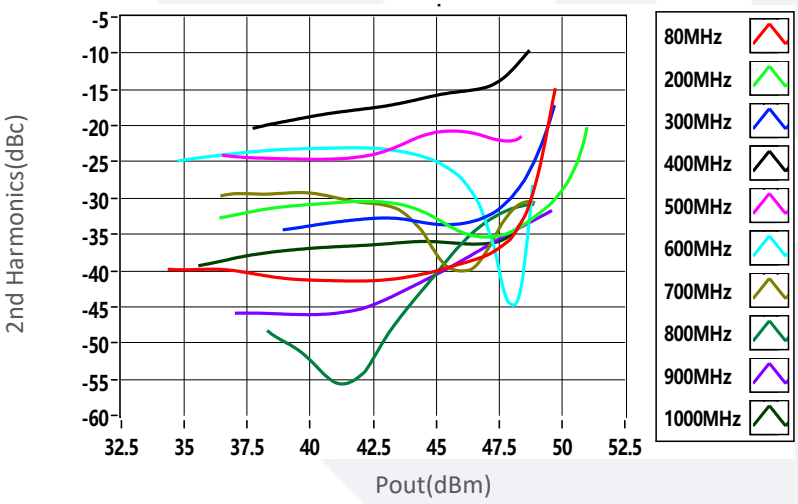
P1dB&P3dB&P5dB vs Frequency



Psat vs Frequency



2nd Harmonics vs Output Power



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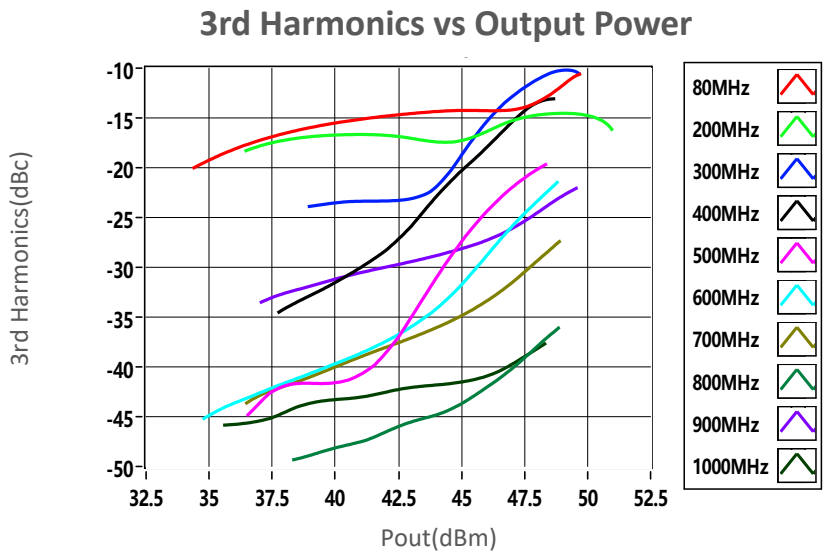
Typical Performance Data: