泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
+86-0512-62657975
sales@talentmw.com
www.talentmw.com

Model:TLPA10M1G-35-40

Power Amplifier 10MHz-1GHz,Gain:35dB,Psat:40dBm

Feature:

- Ultra Wide Band: 10MHz-1GHz
- Gain: 35dB Typ
- Psat Output Power: 40 dBm Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range		0.01-1		GHz
Gain	32	35		dB
Gain Flatness		±2	±3	dB
Output P1dB	37	38		dBm
Output Psat	39	40		dBm
Harmonics			-10	dBc
Input VSWR		1.5	2.0	:1
DC Voltage	26	28	30	V DC
DC Supply Current		0.2	1.5	A
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female	
DC Bias	Solder Pin	
Size	76*48*15	mm
Weight	250	g

Available 220V System Benchtop Amplifier

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	30V
RF Input Power	10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

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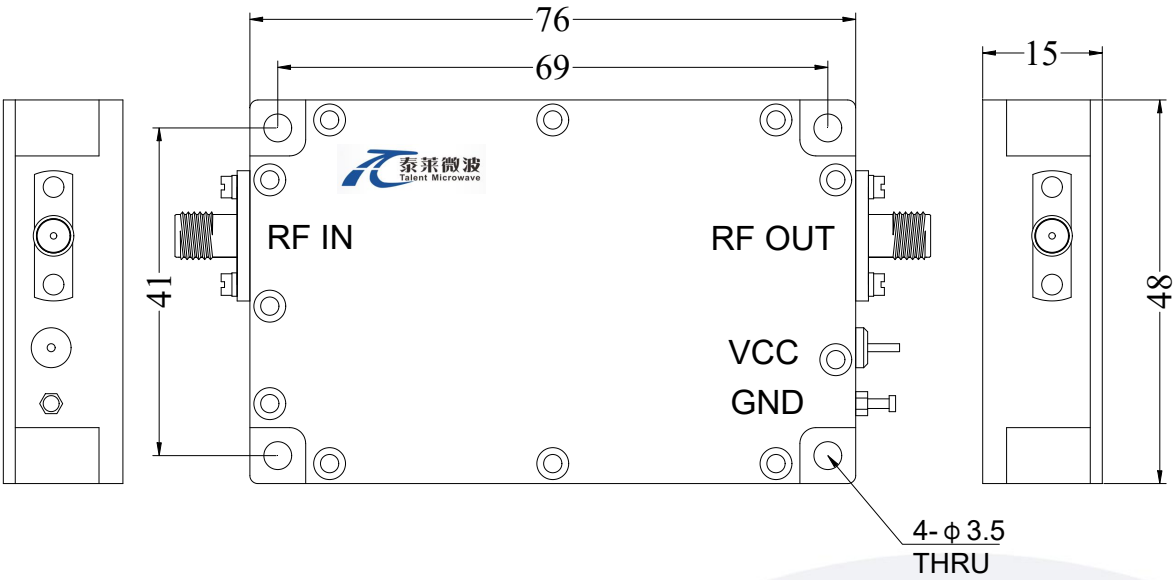
Outline Drawing:

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
TLPA10M1G-35-40	Power amplifier 10MHz-1GHz,Gain:35dB,Psat:40dBm,28V DC, Without Heatsink	Rev.1.0
TLPA10M1G-35-40-HS	Power amplifier 10MHz-1GHz,Gain:35dB,Psat:40dBm,28V DC, With Heatsink	Rev.1.0

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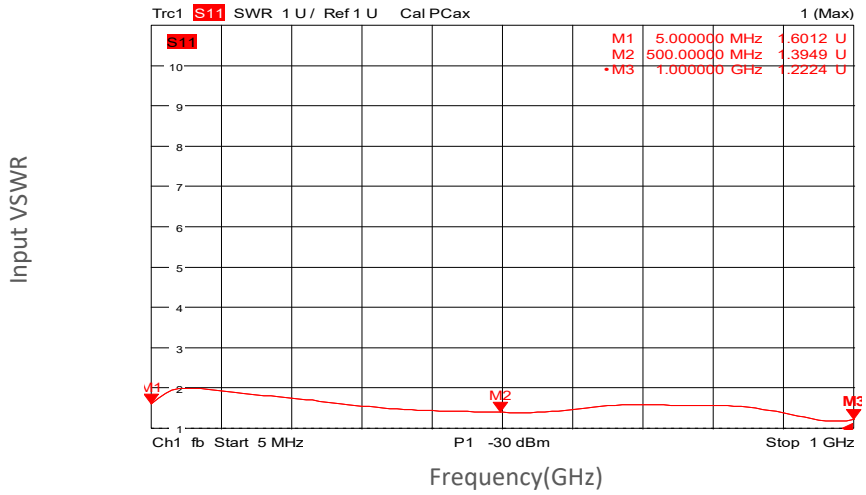
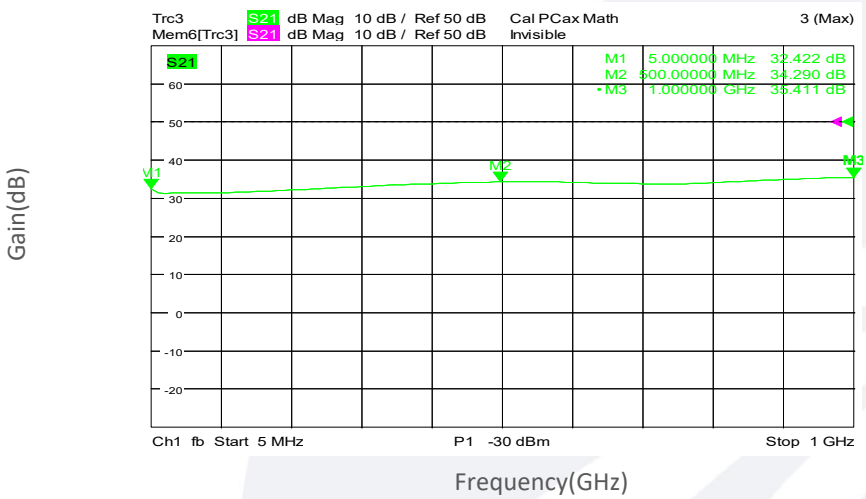
Typical Performance Data:

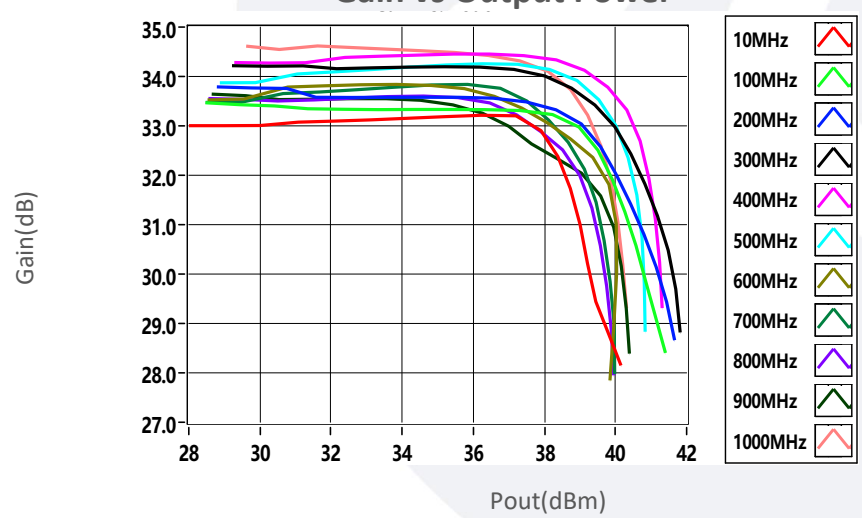
Input VSWR vs Frequency



Gain vs Frequency



Gain vs Output Power



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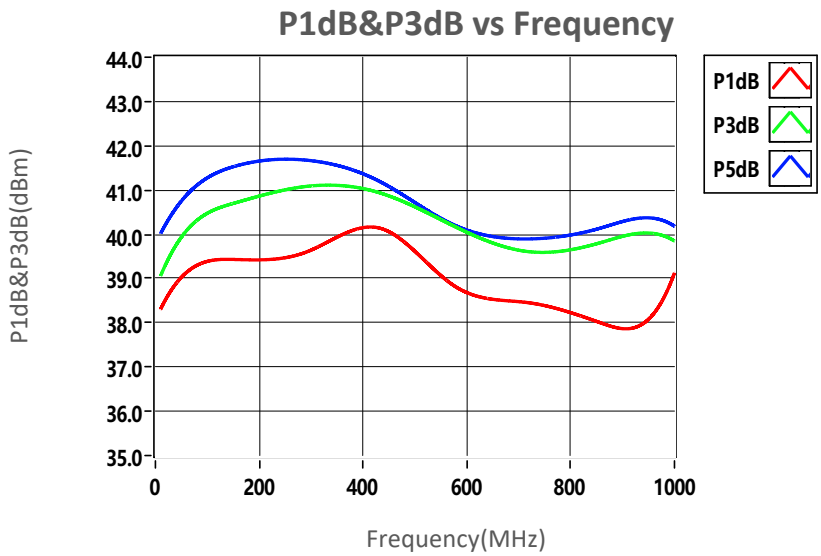

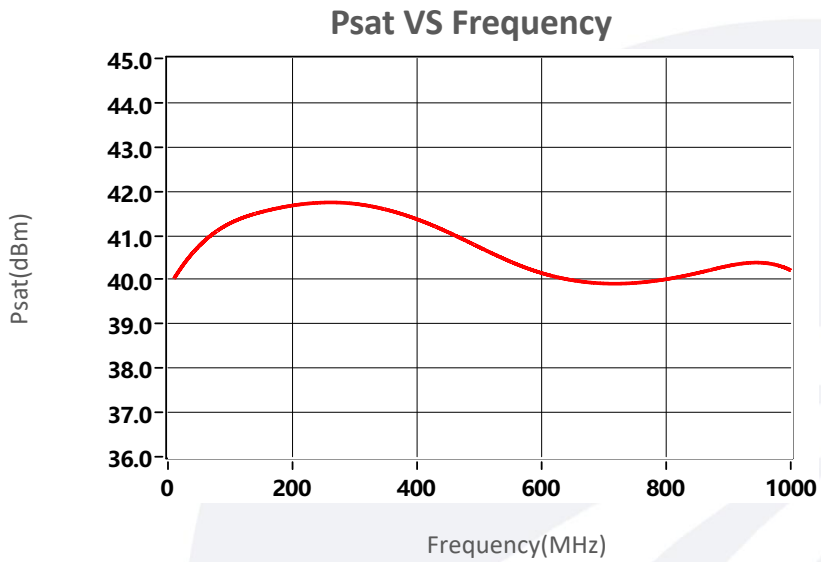

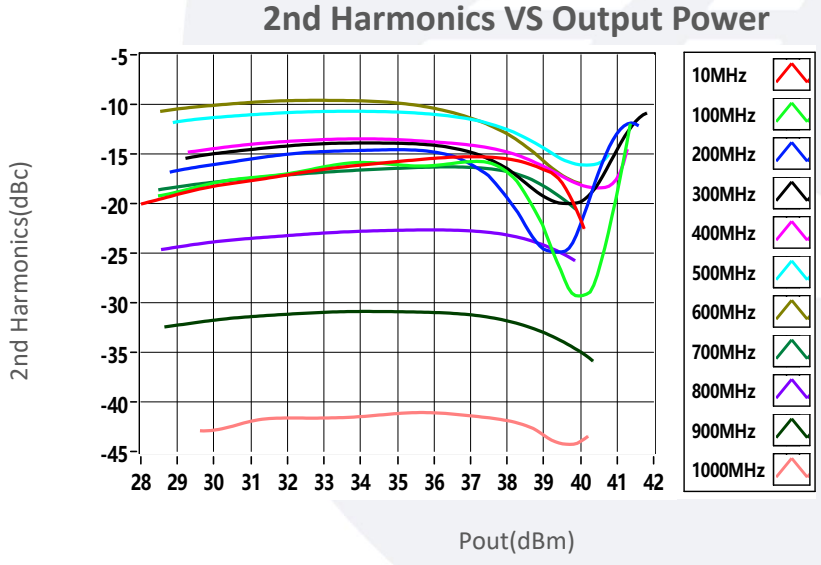

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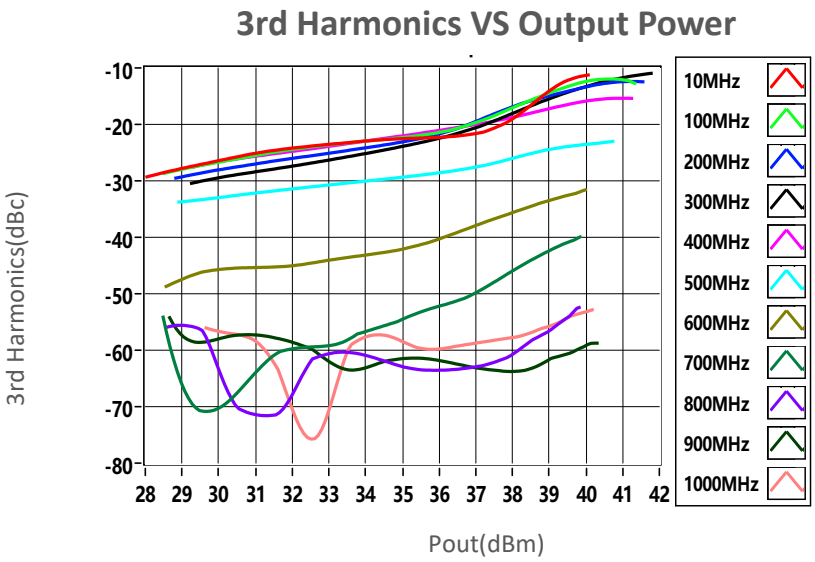
Typical Performance Data: