泰莱微波
Talent Microwave

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

Model:TLPA100M2G-30-30

Power Amplifier
0.1-2GHz,Gain:30dB,P1dB:30dBm

Feature:

- Ultra Wide Band: 0.1-2GHz
- Gain:27dB Min
- P1dB Output Power:30dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range		0.1-2		GHz
Gain	27	30		dB
Gain Flatness		±0.5	±0.75	dB
Output P1dB	30	31		dBm
Harmonics		-25	-20	dBC
Input VSWR		1.5	2	:1
DC Voltage		+15	+16	V DC
DC Supply Current		700	1000	mA
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Size	120*70*15	mm
Weight	200	g

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+16V
RF Input Power	5dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Available 220V System
Benchtop Amplifier

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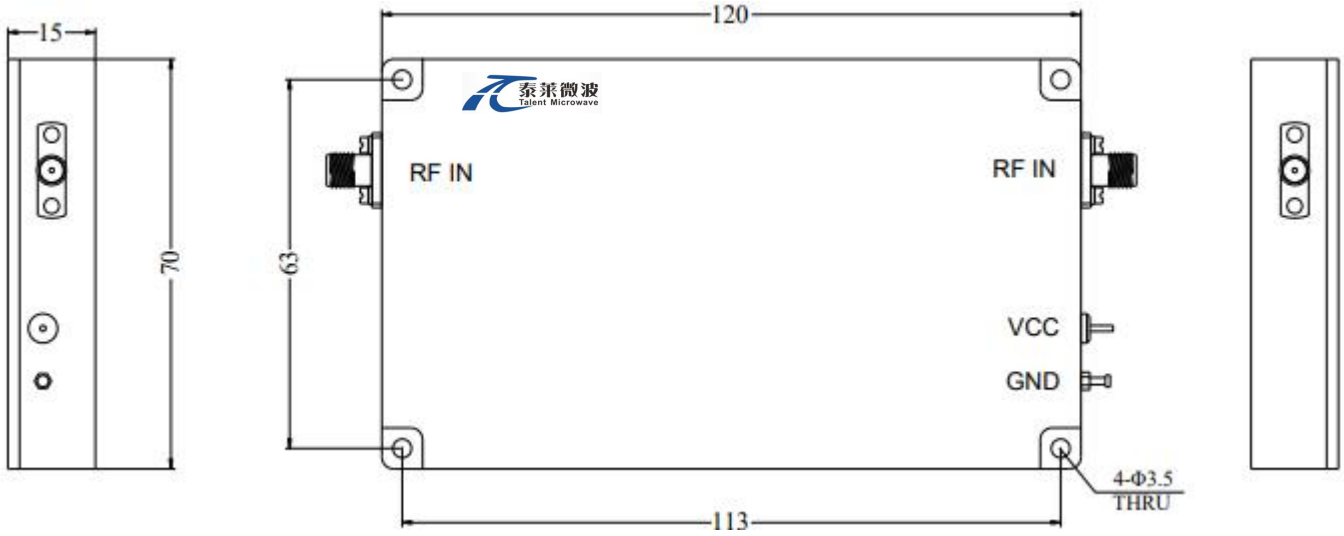
Outline Drawing:

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)	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
TLPA100M2G-30-30	Power amplifier 0.1-2GHz,Gain:30dB,P1dB:30dBm,+15V DC,Without Heatsink.	Rev.1.1
TLPA100M2G-30-30 -HS	Power amplifier 0.1-2GHz,Gain:30dB,P1dB:30dBm,+15V DC,With Heatsink.	Rev.1.1

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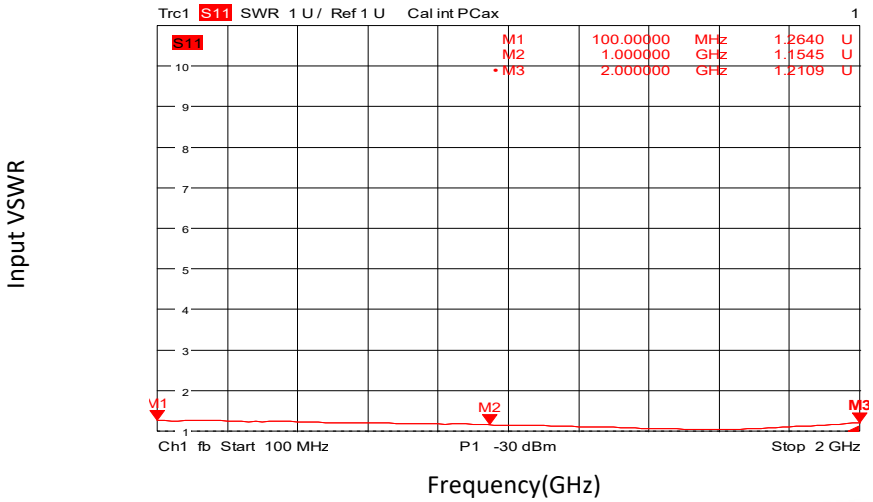
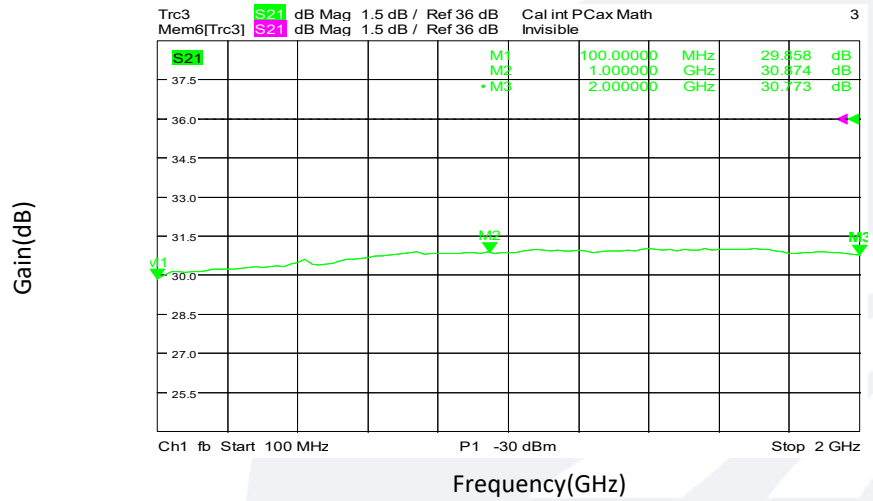
Typical Performance Data:

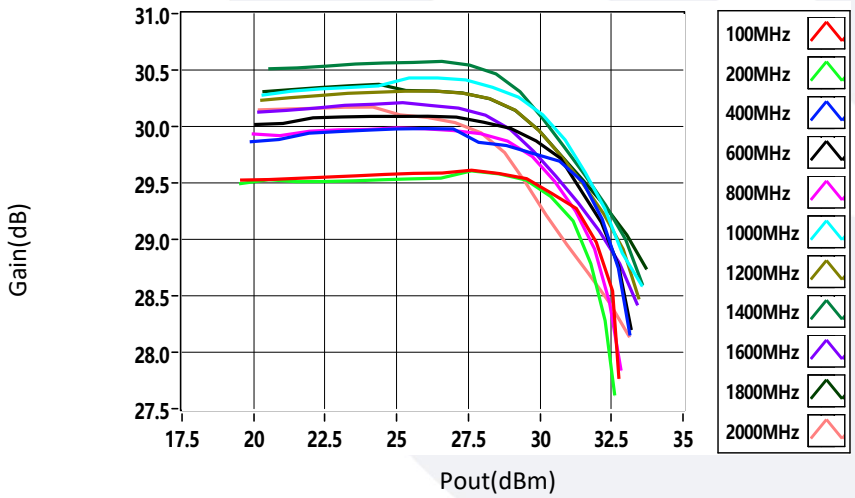
Input VSWR vs Frequency



Gain vs Frequency



Gain vs Output Power



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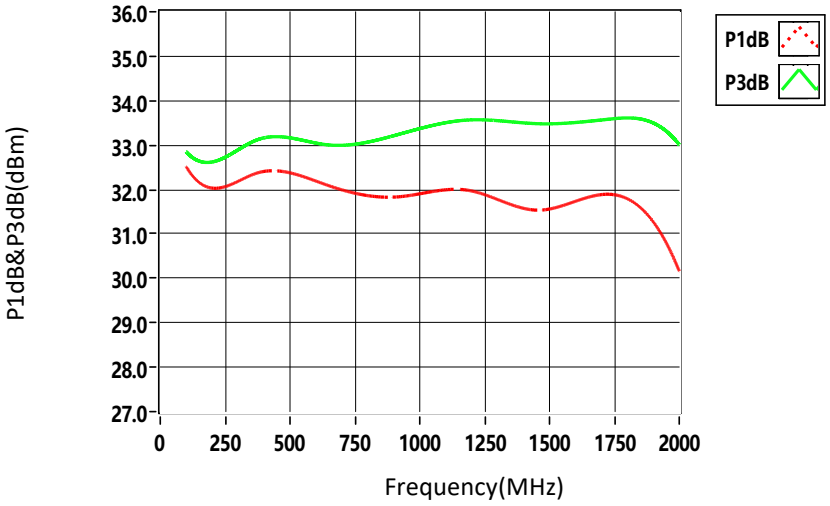
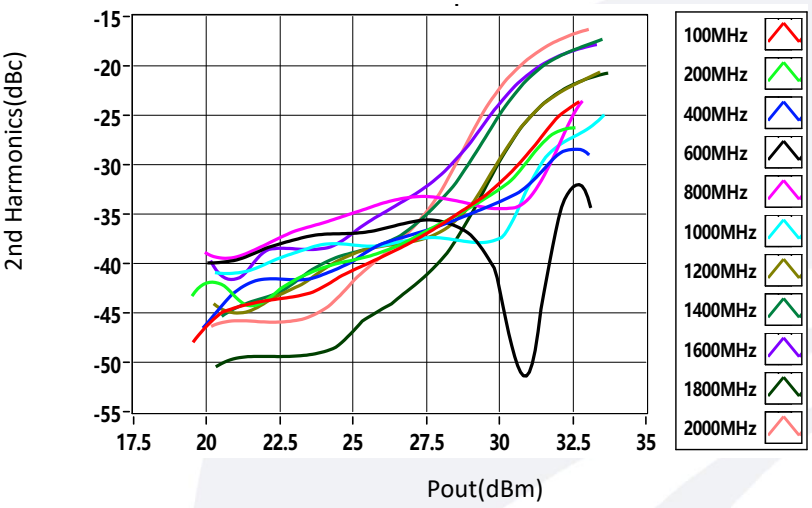
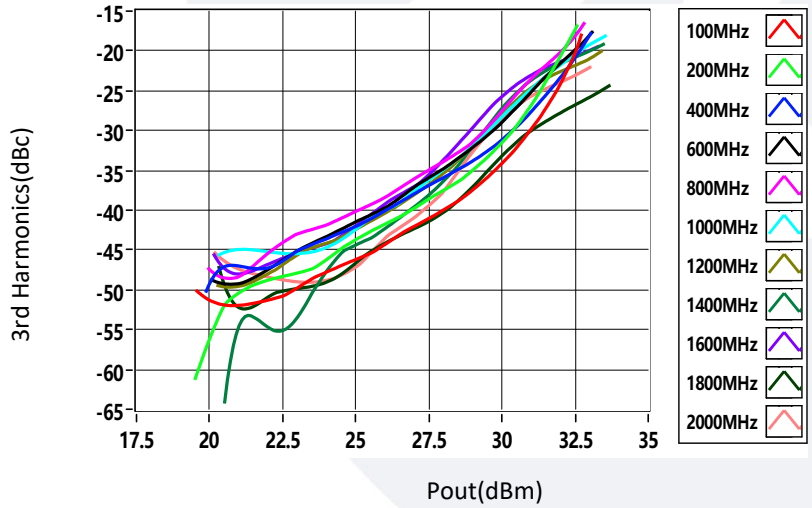
Typical Performance Data:

P1dB&P3dB vs Frequency



2nd Harmonics VS Output Power



3rd Harmonics VS Output Power