泰莱微波
Talent Microwave

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

Model:TLPA10M2G-30-30

Power Amplifier 10MHz-2GHz,Gain:30dB,Psat:30dBm

Feature:

- Ultra Wide Band: 10MHz-2GHz
- Gain: 30dB Min
- Psat Output Power: 30 dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range		0.01-2		GHz
Small Signal Gain	30	32		dB
Gain Flatness		±1	±2	dB
Output Psat	30	31		dBm
Harmonics		-15		dBc
Input VSWR		1.5	2.0	:1
DC Voltage		+15	+16	V DC
DC Supply Current		0.5	1	A
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female	
DC Bias	Solder Pin	
Size	120*70*15	mm
Weight	150	g

Available 220V System Benchtop Amplifier

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+16V
RF Input Power	10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

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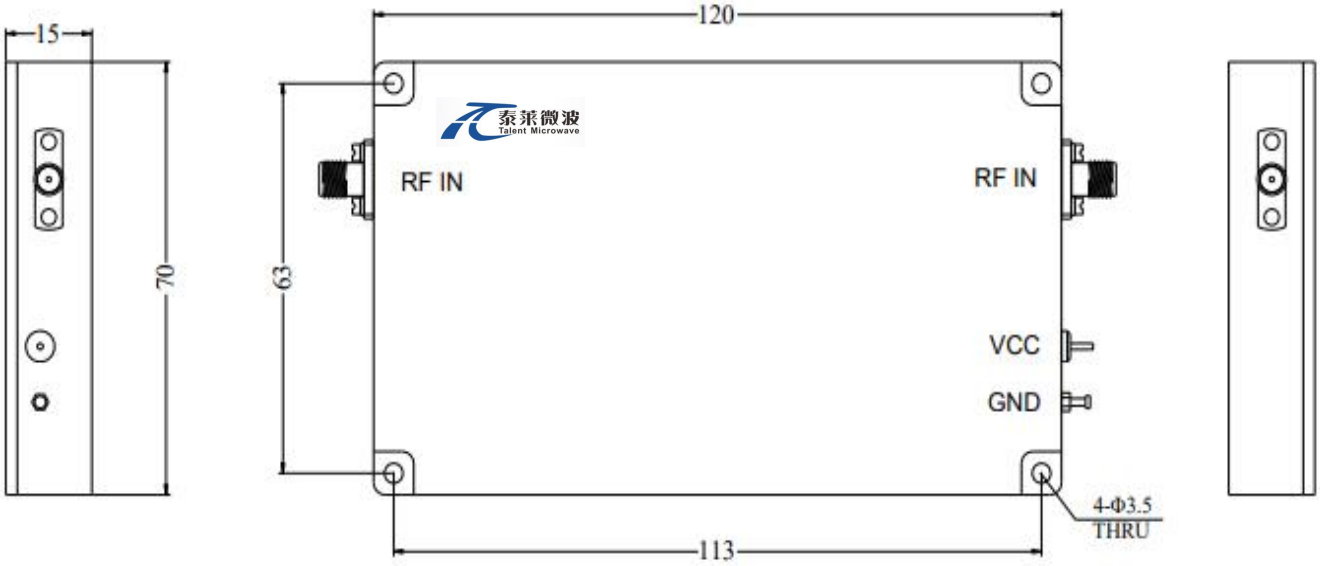
Outline Drawing:

Unit: mm



***Heat Sink Required During Operation

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
TLPA10M2G-30-30	Power amplifier 10MHz-2GHz,Gain:30dB,Psat:30dBm,+15V DC, Without Heatsink	Rev.1.0
TLPA10M2G-30-30-HS	Power amplifier 10MHz-2GHz,Gain:30dB,Psat:30dBm,+15V DC, With Heatsink	Rev.1.0

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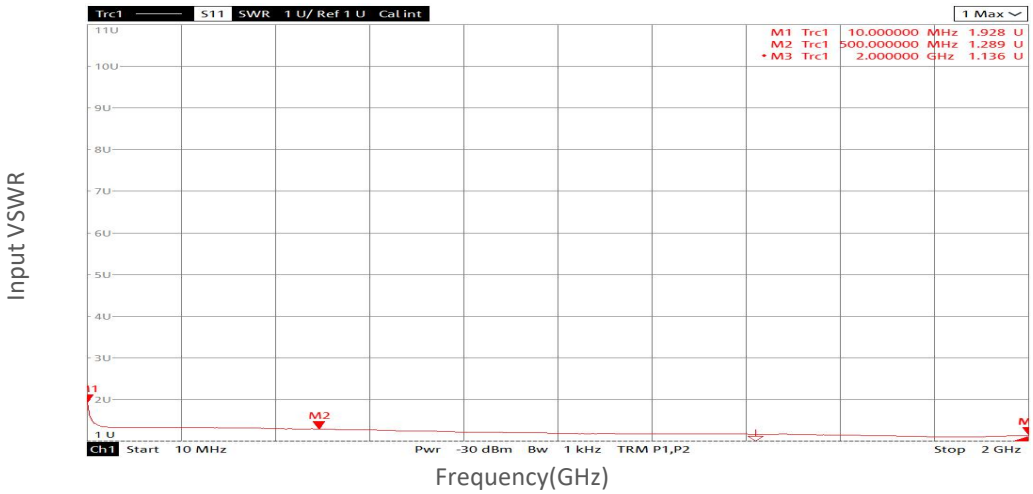
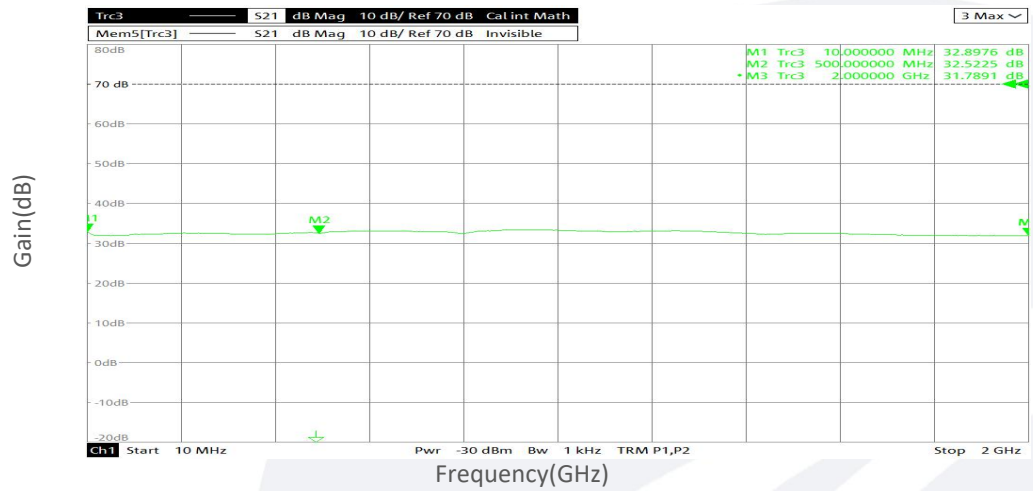
Typical Performance Data:

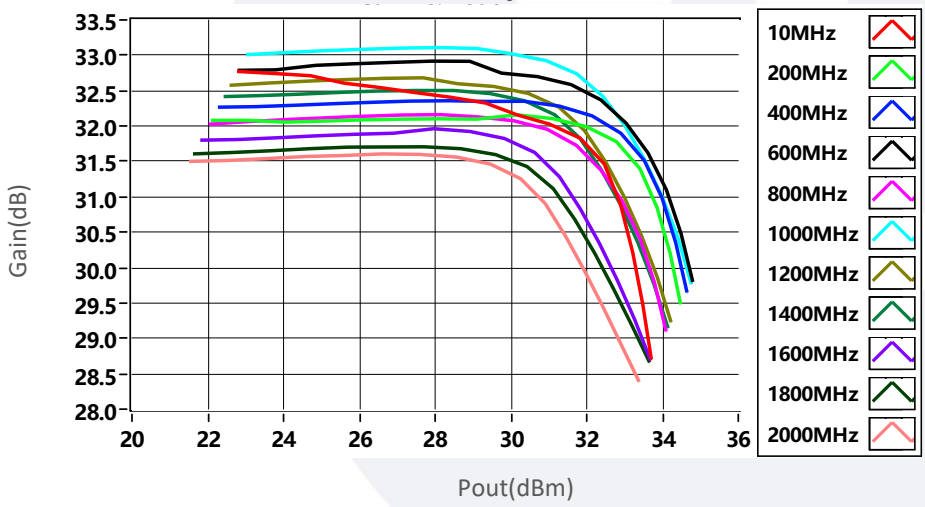
Input VSWR vs Frequency



Small Signal Gain vs Frequency



Gain vs Output Power



Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

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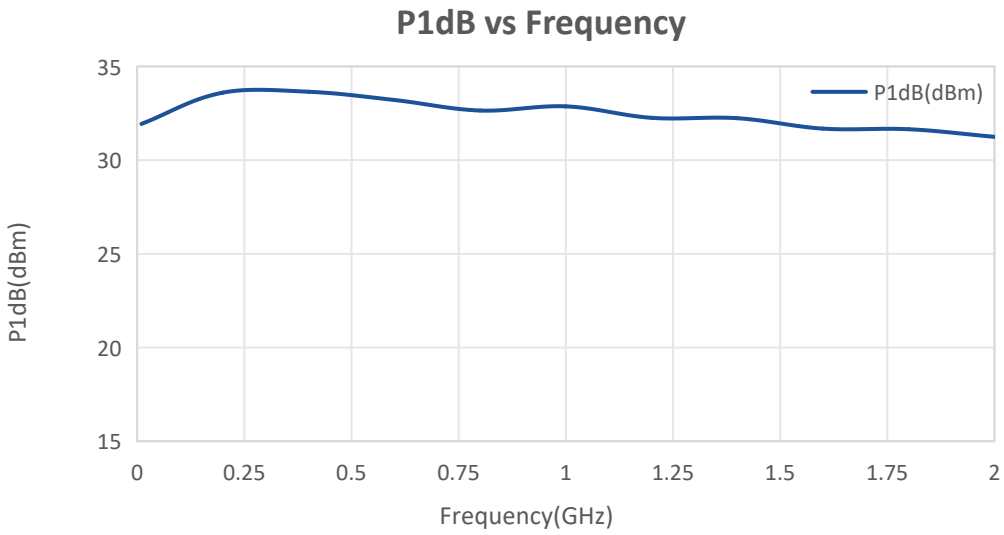

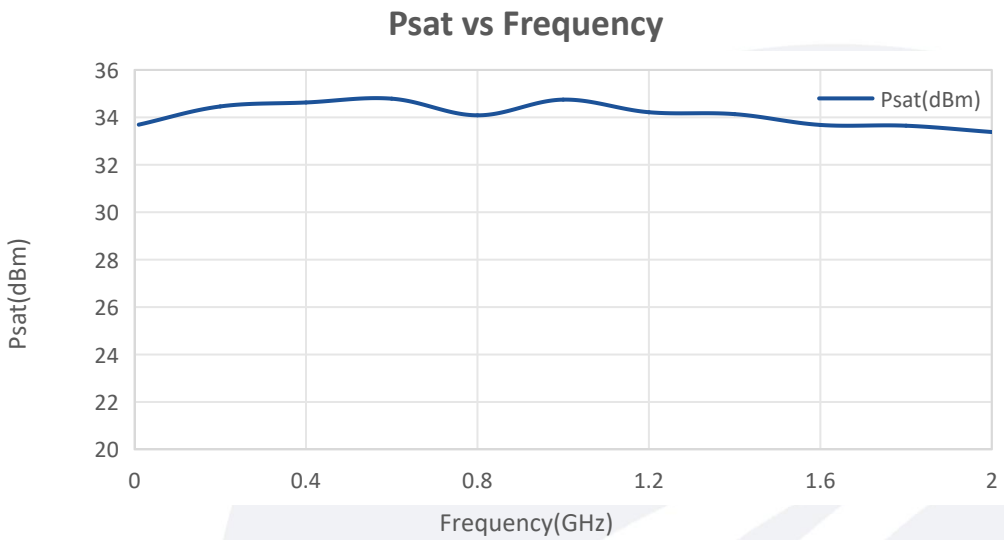

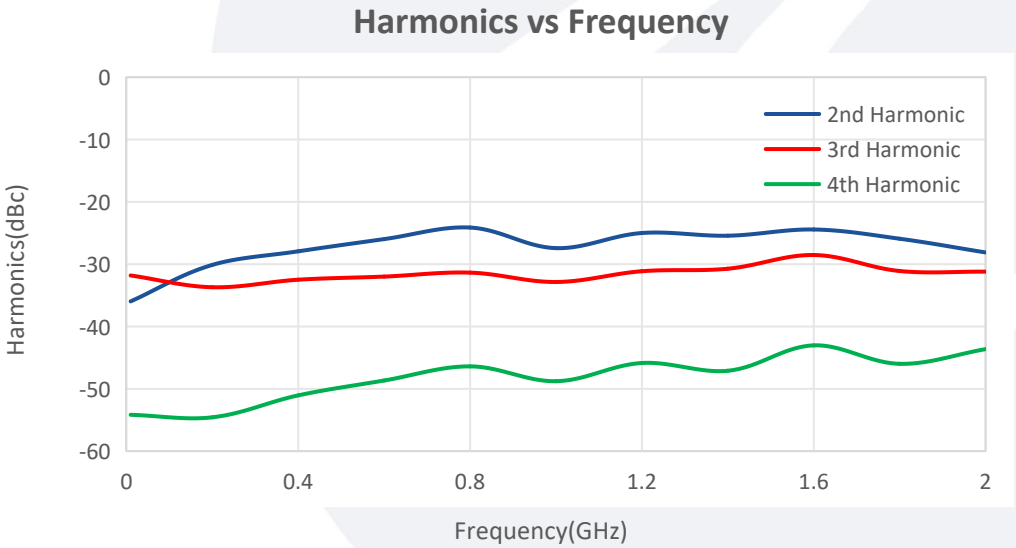

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