泰莱微波
Talent Microwave

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

Model:TLPA400M8G-35-20

Power Amplifier
0.4-8GHz,Gain:35dB,P1dB:20dBm

Feature:

- Ultra Wide Band: 0.4-8GHz
- Gain:32dB Min
- P1dB Output Power:20dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range		0.4-8		GHz
Gain	32	35		dB
Gain Flatness		±2	±3	dB
Output P1dB	20	21		dBm
Output Psat		22		dBm
Input VSWR		1.5	2	:1
Harmonics		-15		dBc
DC Voltage		+12	+15	V DC
DC Supply Current		200	250	mA
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Size	90*50*15	mm
Weight	150	g

Absolute Maximum Ratings:

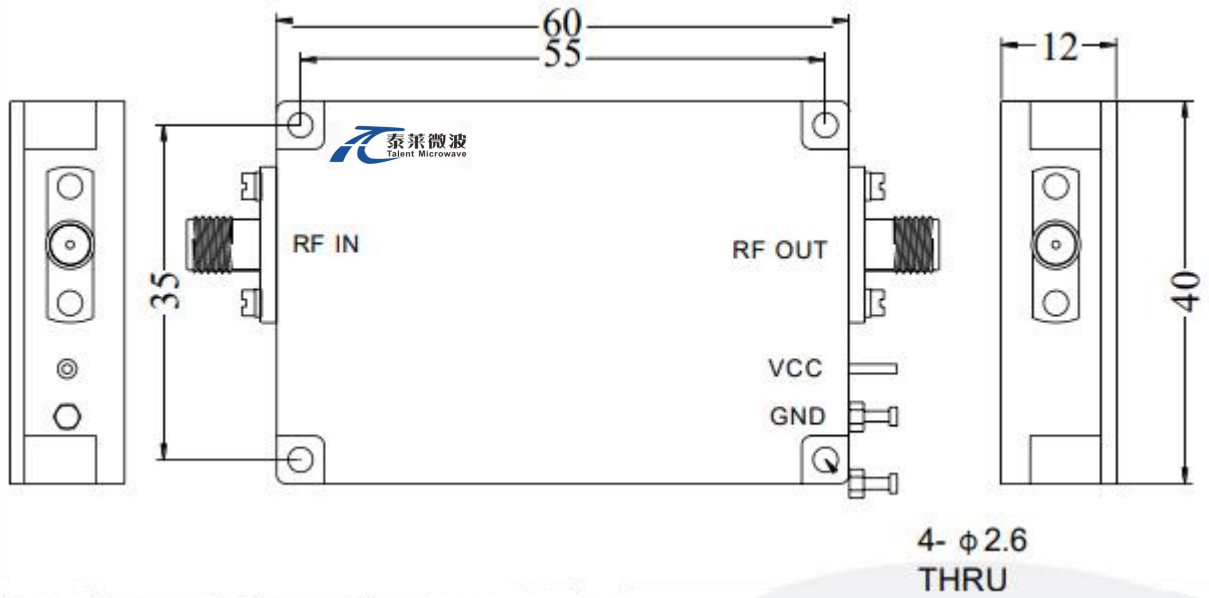
Parameter	Value
Supply Bias Voltage	+15V
RF Input Power	0dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Available 220V System
Benchtop Amplifier

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

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
TLPA400M8G-35-20	Power amplifier 0.4-8GHz,Gain:35dB,P1dB:20dBm,+12V DC,Without Heatsink.	Rev.1.1
TLPA400M8G-35-20-HS	Power amplifier 0.4-8GHz,Gain:35dB,P1dB:20dBm,+12V DC,With Heatsink.	Rev.1.1

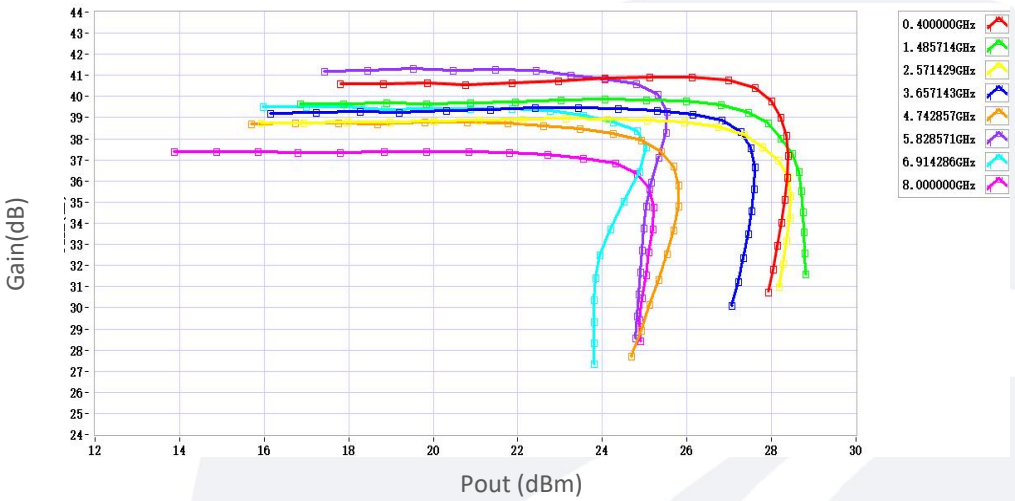
泰莱微波
Talent Microwave

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

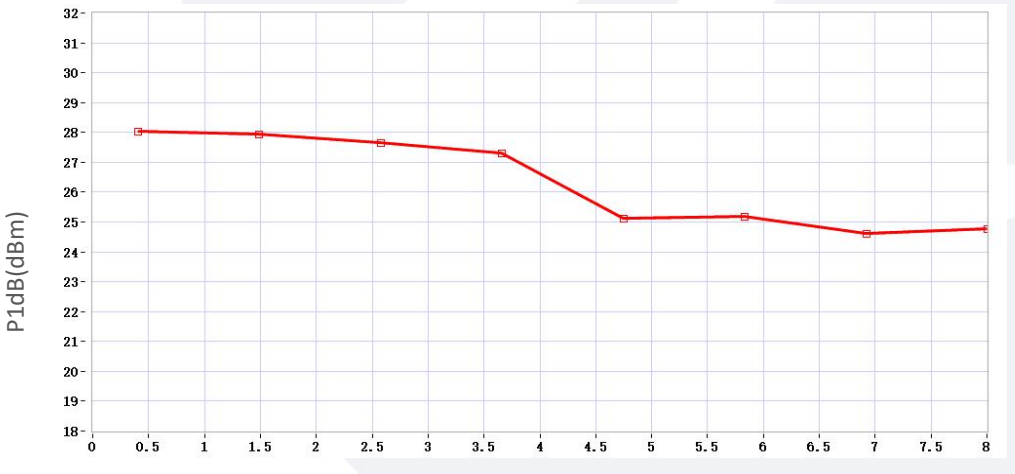
Typical Performance Data:

VSWR&Gain vs Frequency

Gain vs Output Power



P1dB vs Frequency

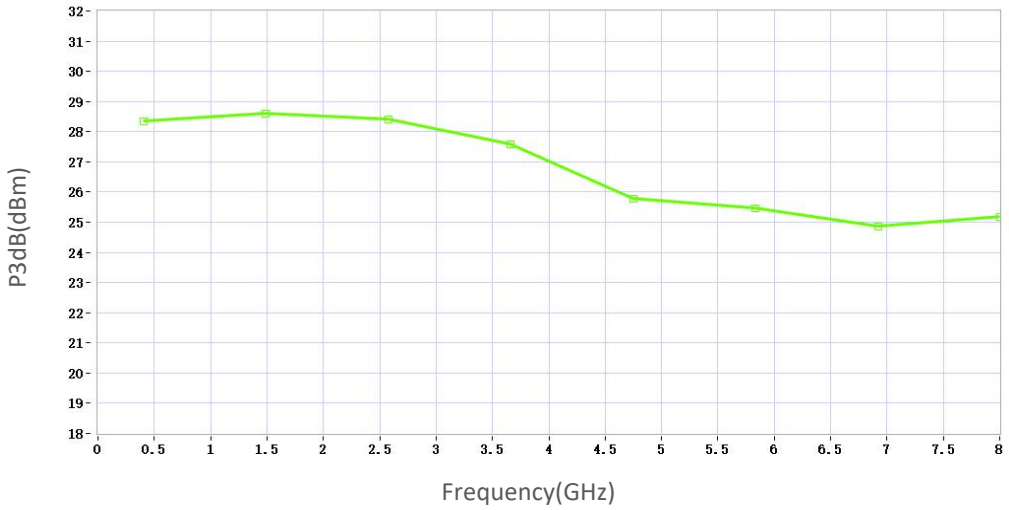


泰莱微波
Talent Microwave

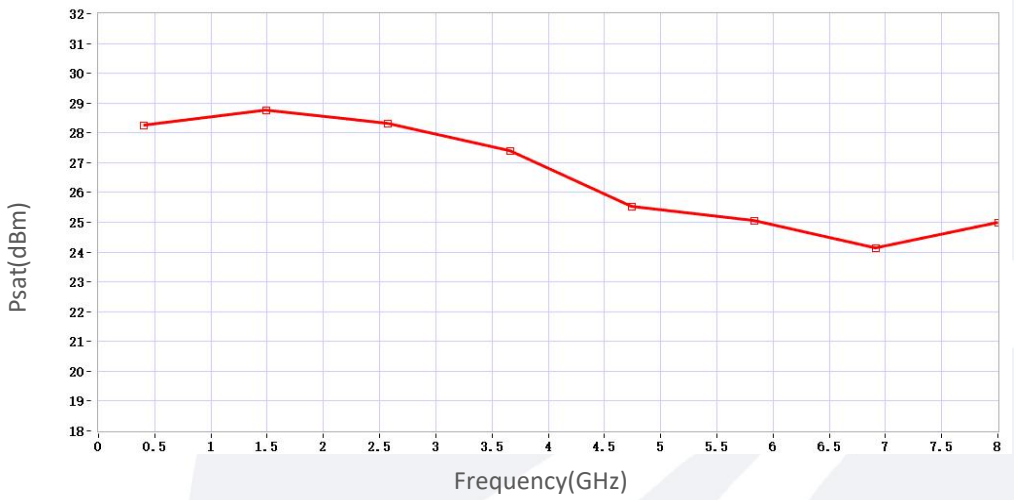
Suzhou Talent Microwave,Inc
+86-0512-62657975
sales@talentmw.com
www.talentmw.com

Typical Performance Data:

P3dB vs Frequency



Psat vs Frequency



2nd Harmonic vs Output Power

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

Typical Performance Data: