泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
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sales@talentmw.com
www.talentmw.com

Model:TLPA2200M2400M-30-40

Power Amplifier 2.2-2.4GHz,Gain:30dB,Psat:40dBm

Feature:

- Ultra Wide Band:2.2-2.4GHz
- Gain:30dB Min
- Psat Output Power:40dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range		2.2-2.4		GHz
Gain	30	33		dB
Gain Flatness		±0.5	±1	dB
Output Psat	40	43		dBm
Spurious		-65	-60	dBc
Input VSWR		1.3	1.5	:1
Output VSWR			2	:1
DC Voltage	+18	+28	+36	V DC
DC Sopply Current		0.7	3	A
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Size	170*140*40	mm
Weight	1.3	Kg

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+36V
RF Input Power	33dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Available 220V System Benchtop Amplifier

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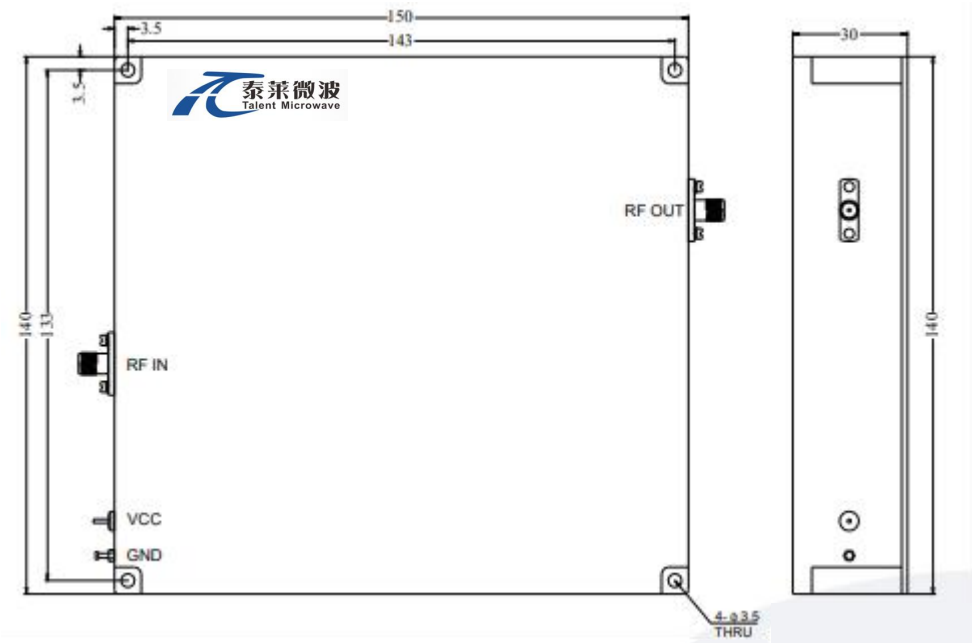
Outline Drawing:

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	30000			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
TLPA2200M2400M-30-40	Power amplifier 2200-2400MHz,Gain30dB,Psat:40dBm,+28V DC,Without Heatsink.	Rev.1.1
TLPA2200M2400M-30-40-HS	Power amplifier 2200-2400MHz,Gain30dB,Psat:40dBm,+28V DC,With Heatsink.	Rev.1.1

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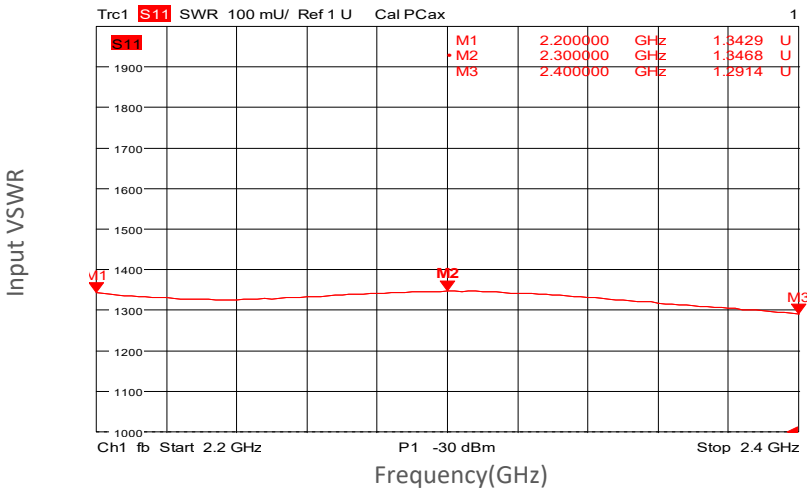
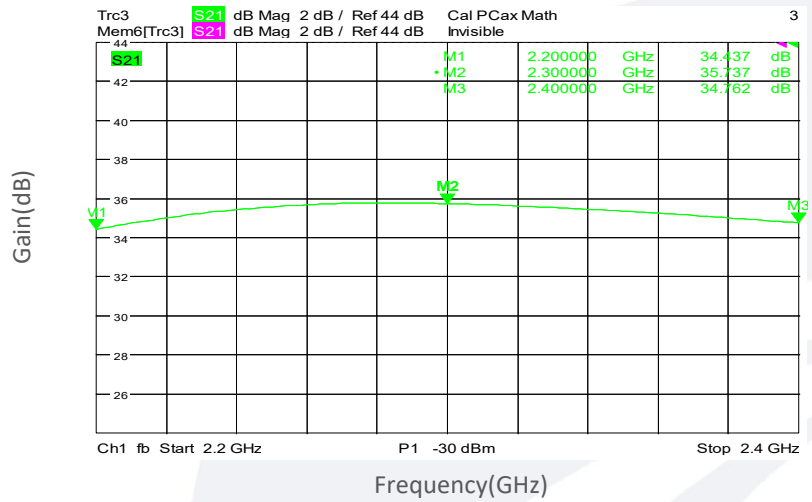
Typical Performance Data:

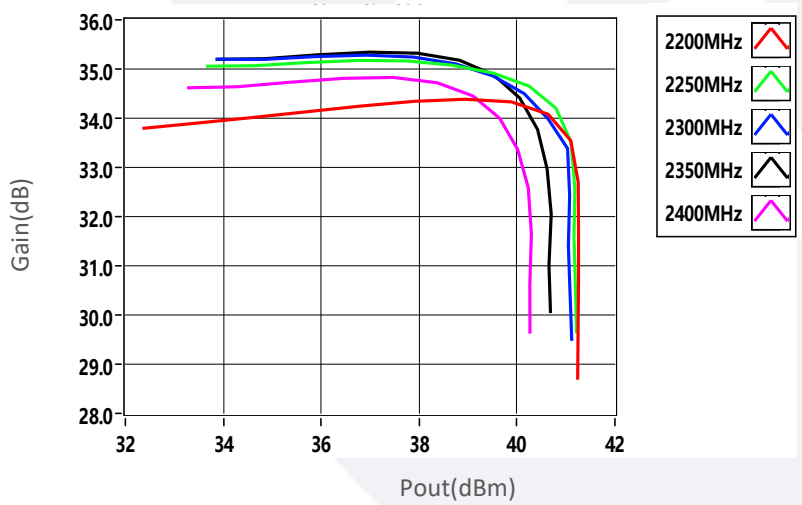
Input VSWR vs Frequency



Gain vs Frequency



Gain vs Output Power



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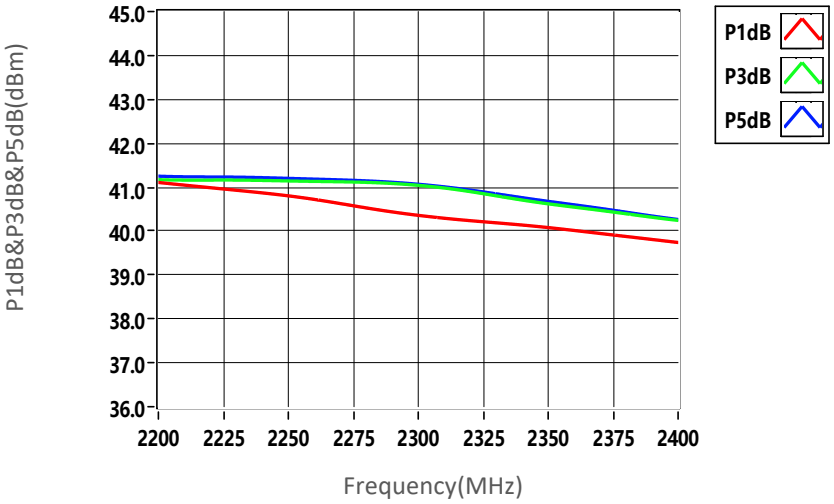
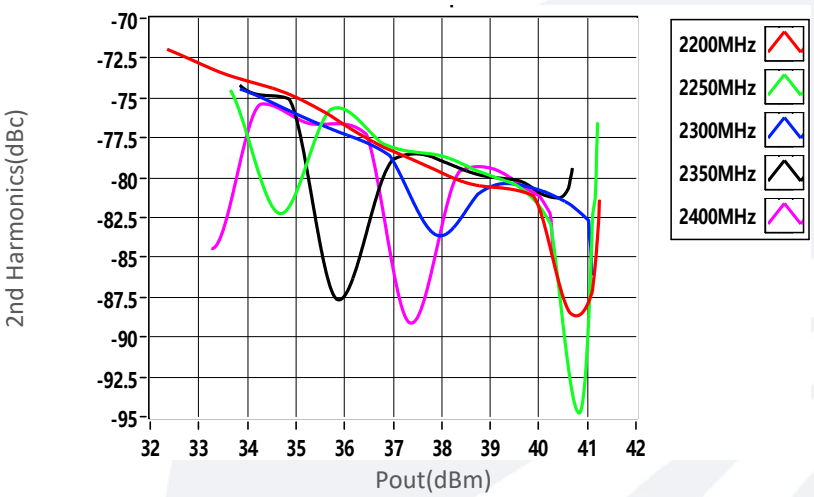
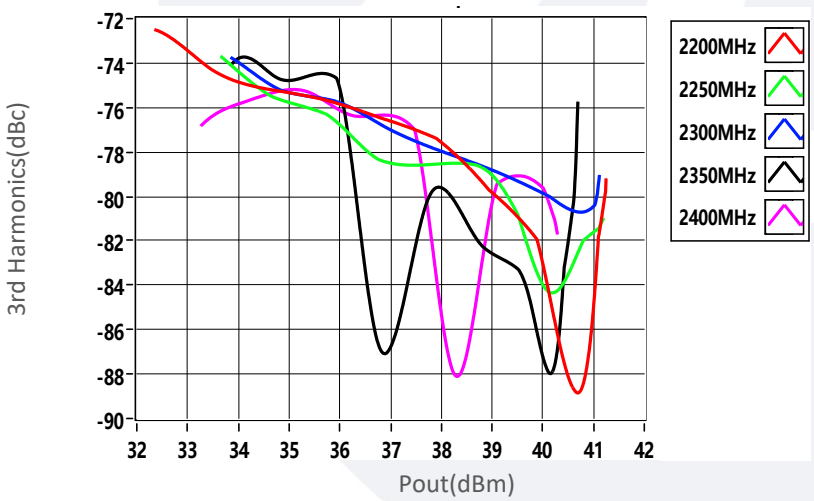
Typical Performance Data:

P1dB&P3dB&P5dB vs Frequency



2nd Harmonics vs Output Power



3rd Harmonics vs Output Power