泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
+86-0512-62657975
sales@talentmw.com
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Model:TLPA50K6G-33-33

Power Amplifier
50KHz-6GHz,Gain:33dB,Psat:38dBm

Feature:

- Ultra Wide Band: 50KHz-6GHz
- Gain: 33 dB Min
- Psat Output Power: 33 dBm Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range		0.05-6000		MHz
Small Signal Gain	33	34		dB
Gain Flatness			±4	dB
Output P1dB		30		dBm
Output Psat	32	33		dBm
Harmonic			-10	dBC
Input VSWR		1.5	2.0	:1
DC Voltage		+28		V DC
DC Supply Current		600		mA
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female	
DC Bias	Solder Pin	
Size	120*80*22	mm
Weight	200	g

Absolute Maximum Ratings:

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

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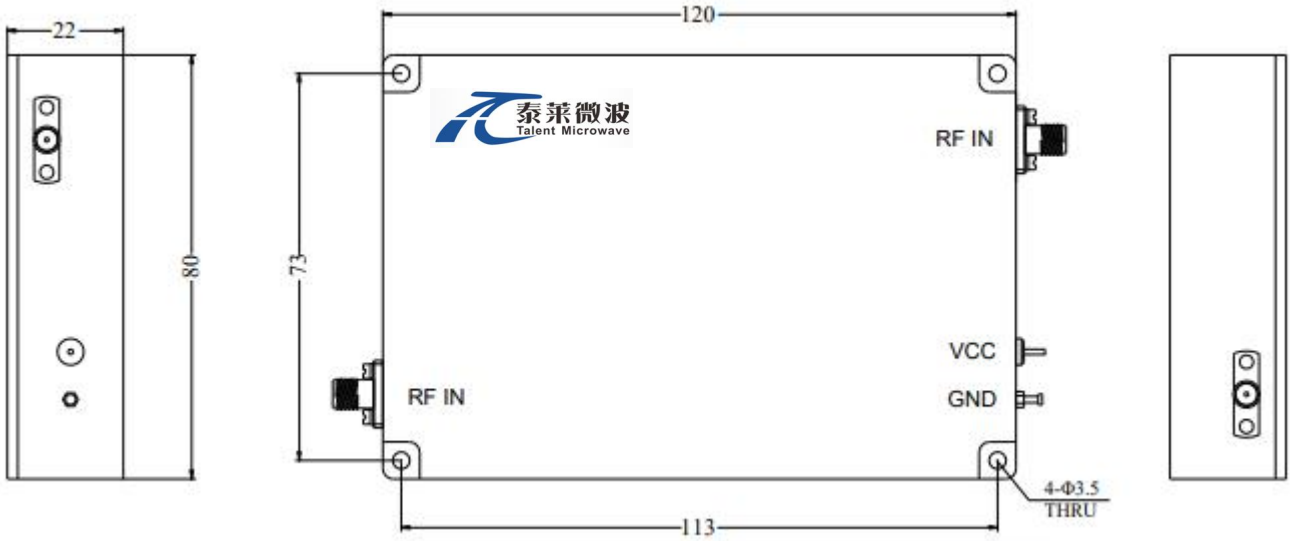
Outline Drawing:

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)	20g,11ms,saw-tooth			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Part Number	Description	Revision
TLPA50K6G-33-33	Power amplifier 50KHz-6GHz,Gain:33dB,Psat:33dBm, +28V DC,Without Heatsink	Rev.1.1
TLPA50K6G-33-33-HS	Power amplifier 50KHz-6GHz,Gain:45dB,Psat:33dBm, +28V DC,With Heatsink	Rev.1.1

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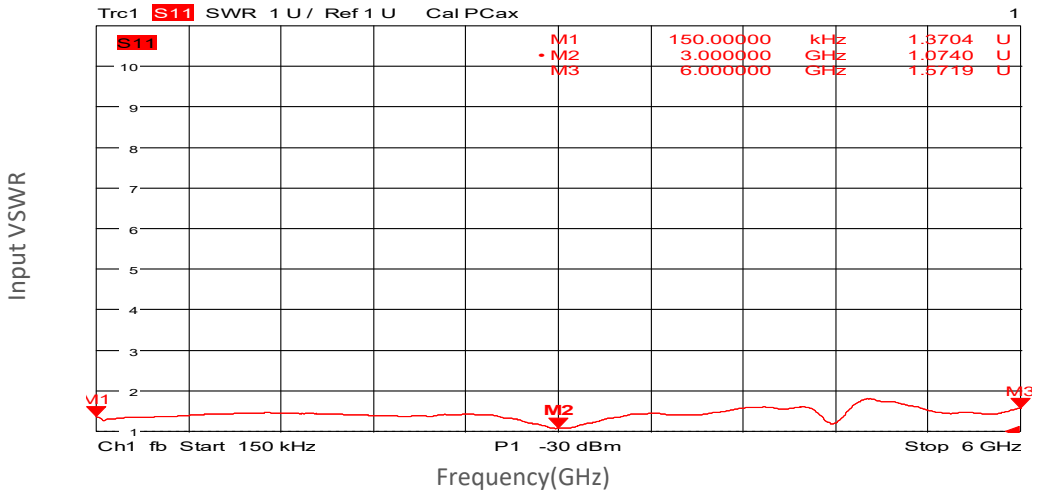
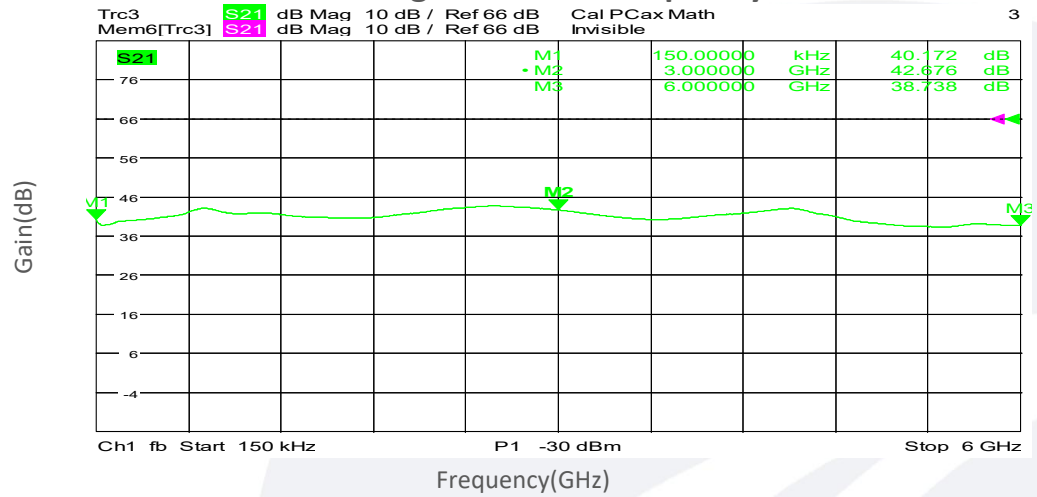
Typical Performance Data:

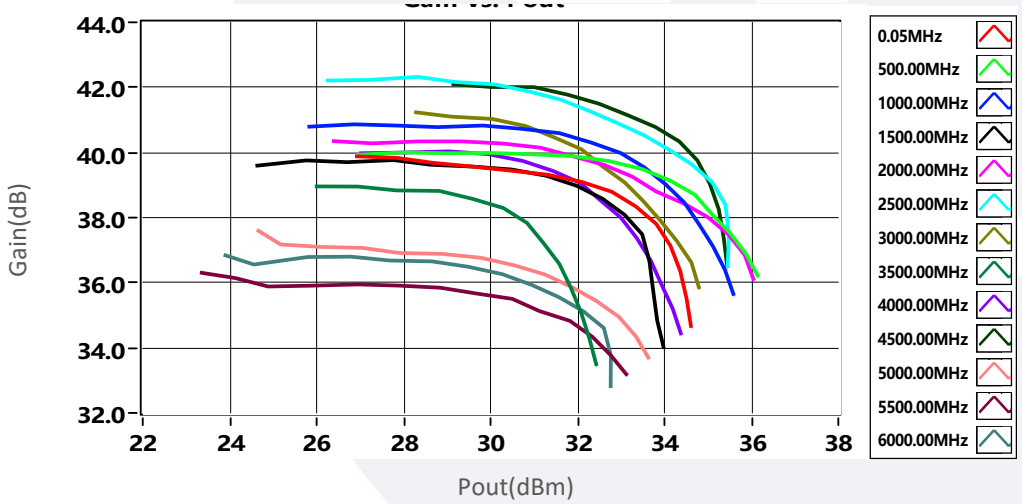
Input VSWR vs Frequency



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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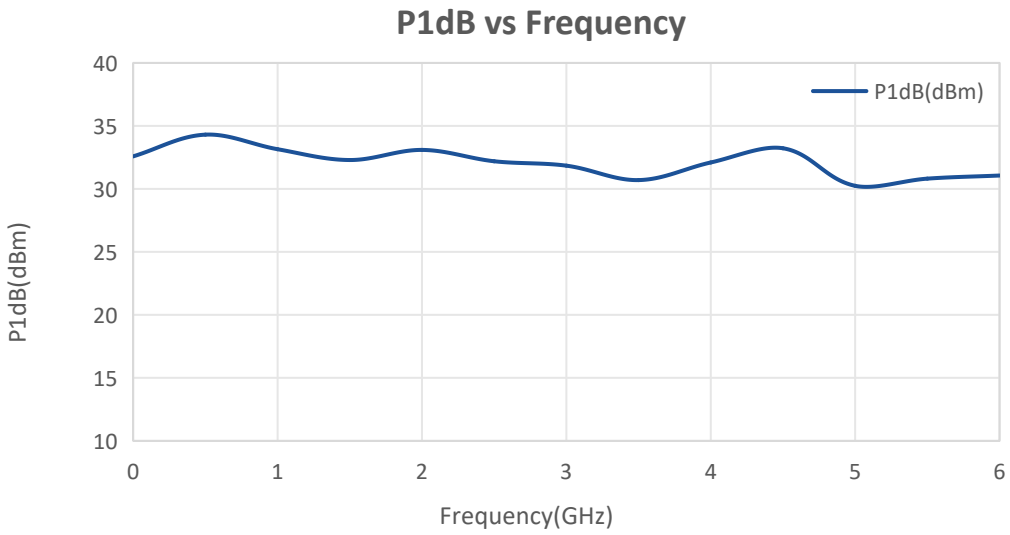

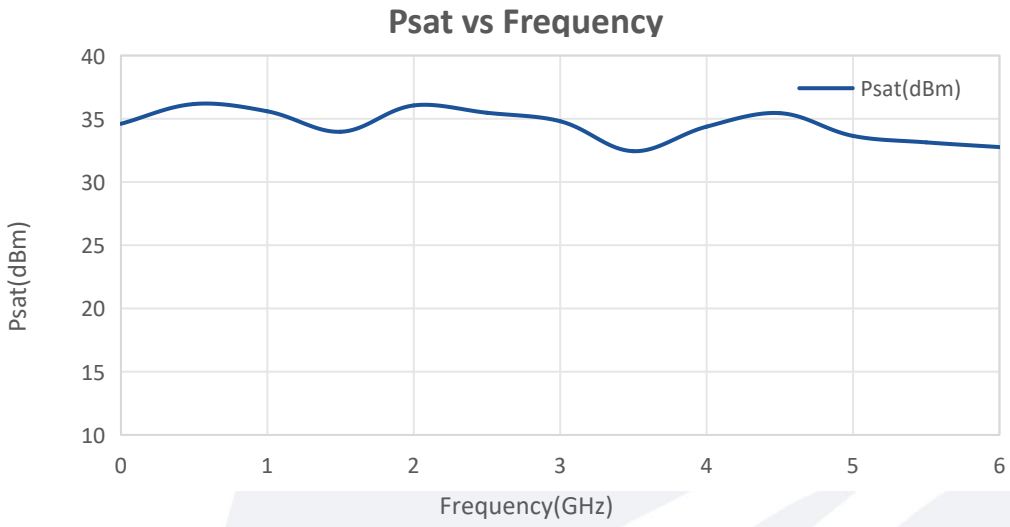

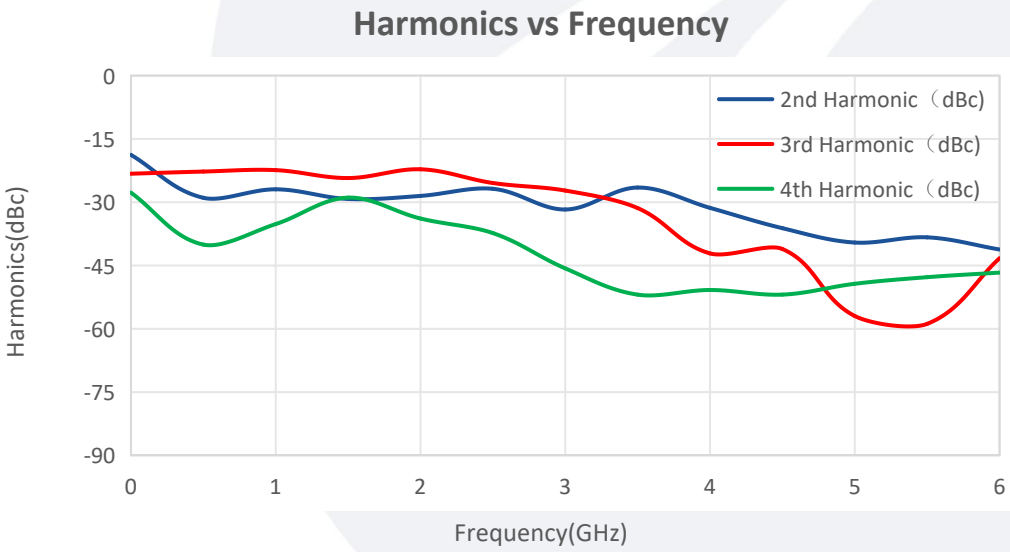

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