

Model:TLPA100M6G-30-30
Power Amplifier
0.1-6GHz,Gain:30dB,P1dB:30dBm
Feature:

- Ultra Wide Band: 0.1-6GHz
- Gain:27dB Min
- Psat Output Power: 30dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	0.1-6			GHz
Gain	27	30		dB
Gain Flatness		±3	±4	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

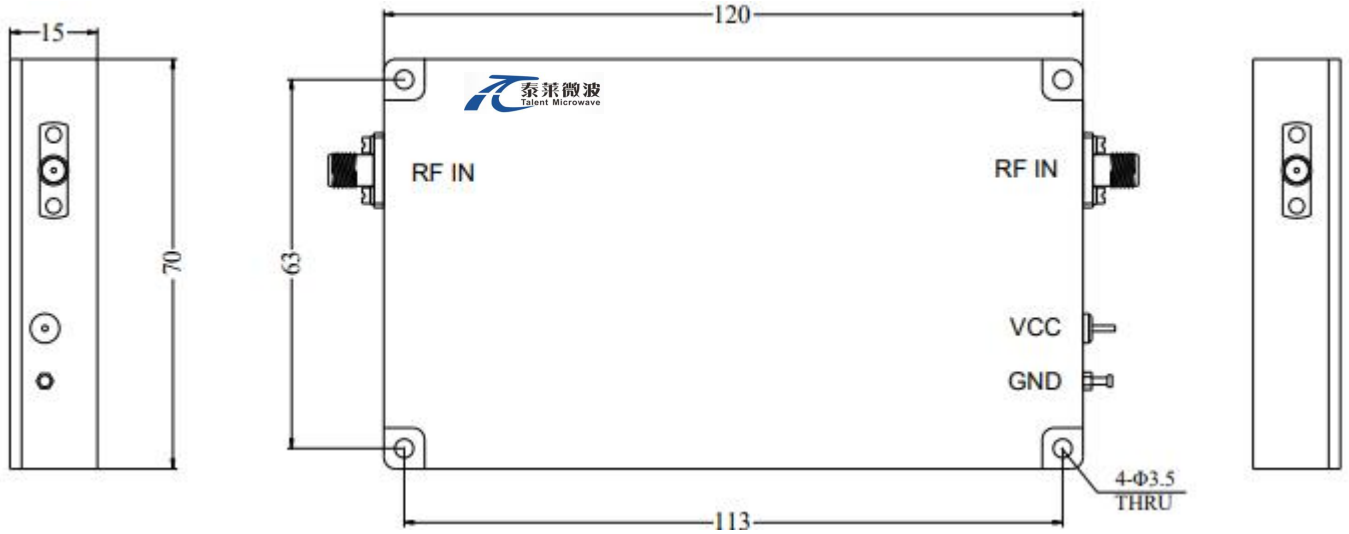
Absolute Maximum Ratings:

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


**Available 220V System
 Benchtop Amplifier**

Outline Drawing:

Unit: mm



*****Heat Sink Required During Operation**



Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature*	-40		+60	°C
存储温度 Non-operating Temperature*	-50		+70	°C
相对湿度 Relative humidity		95		%
海拔 Altitude		10,000		feet
震动 Shock / Vibration(MIL-STD-810F)		20g,11ms,saw-tooth		
冲击 Shock(non operating)		20G for 11msc half sin wave,3 axis both directions		

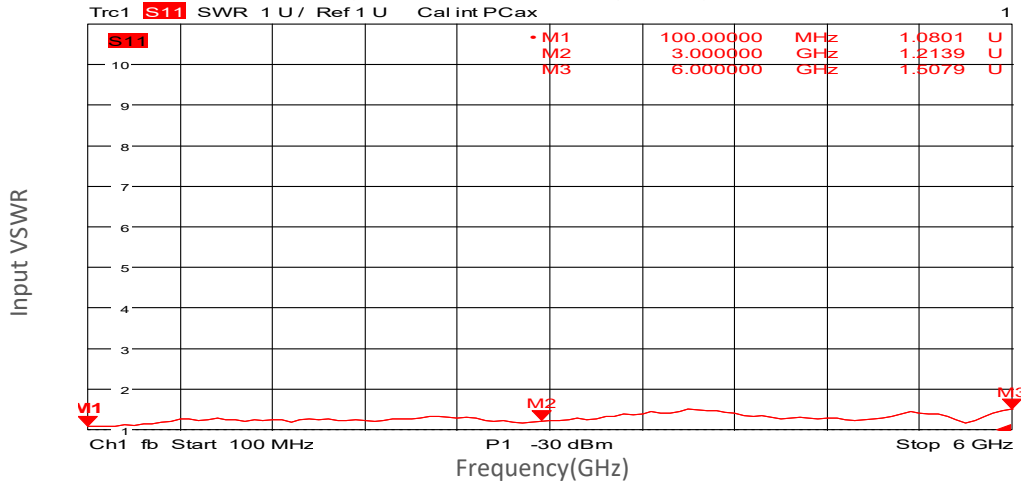
*Note: For a wider temperature range, please consult the manufacturer.

Ordering Information:

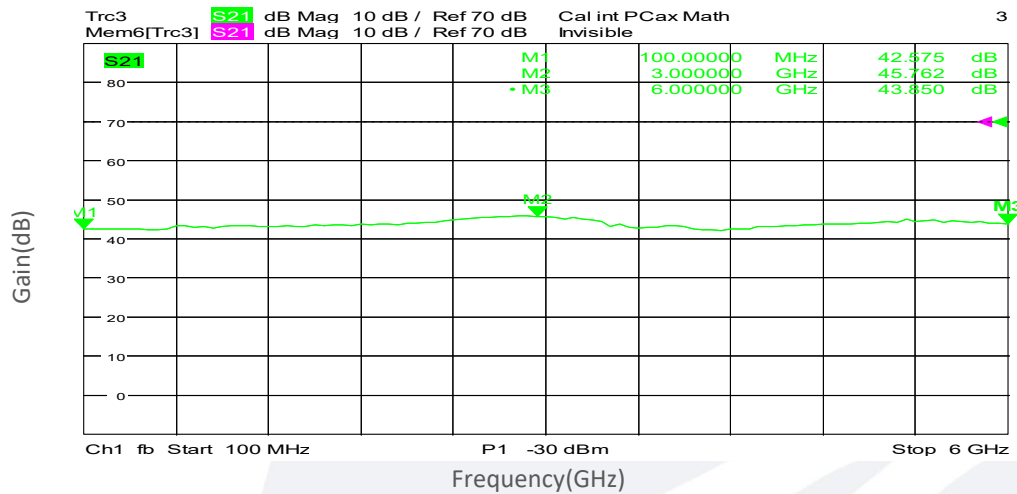
Part Number	Description	Revision
TLPA100M6G-30-30	Power amplifier 0.1-6.0GHz,Gain:30dB,P1dB:30dBm,+15V DC,Without Heatsink.	Rev.1.1
TLPA100M6G-30-30-HS	Power amplifier 0.1-6.0GHz,Gain:30dB,P1dB:30dBm,+15V DC,With Heatsink.	Rev.1.1

Typical Performance Data:

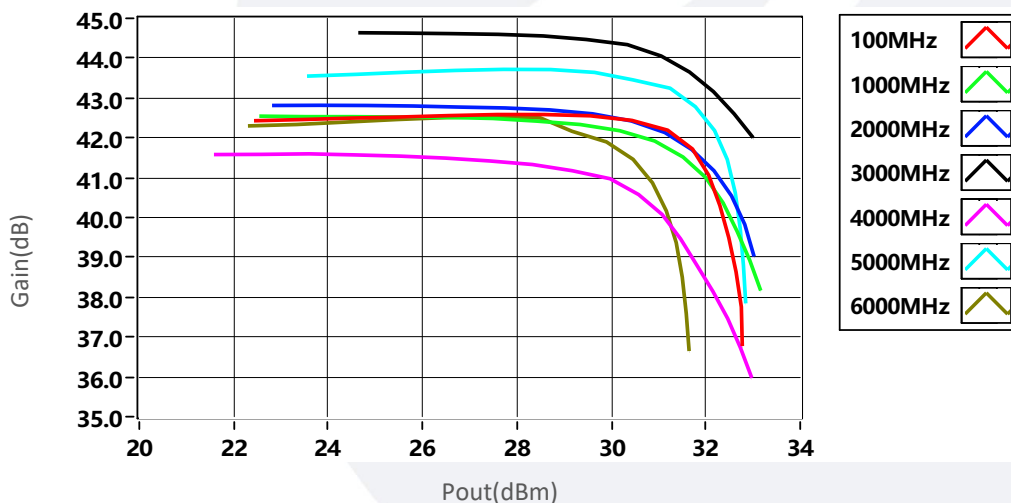
Input VSWR vs Frequency



Gain vs Frequency



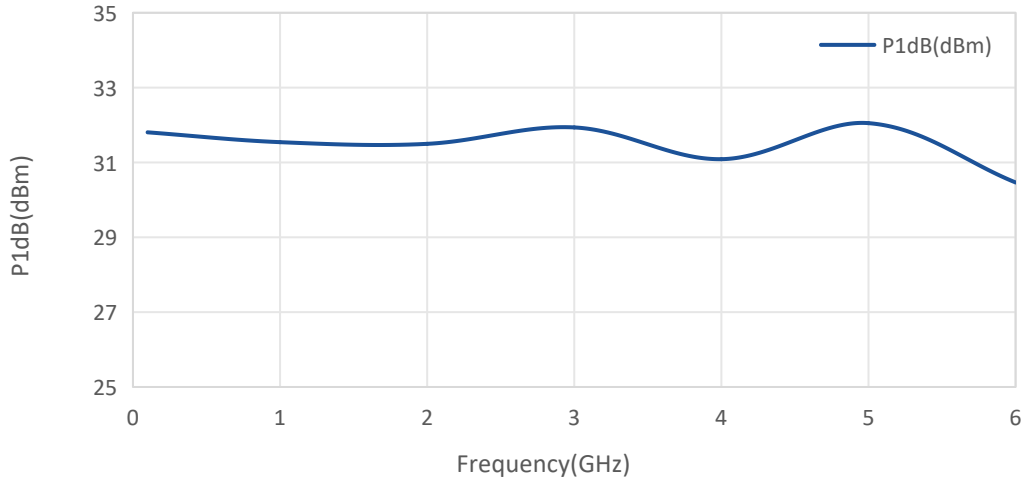
Gain vs Output Power



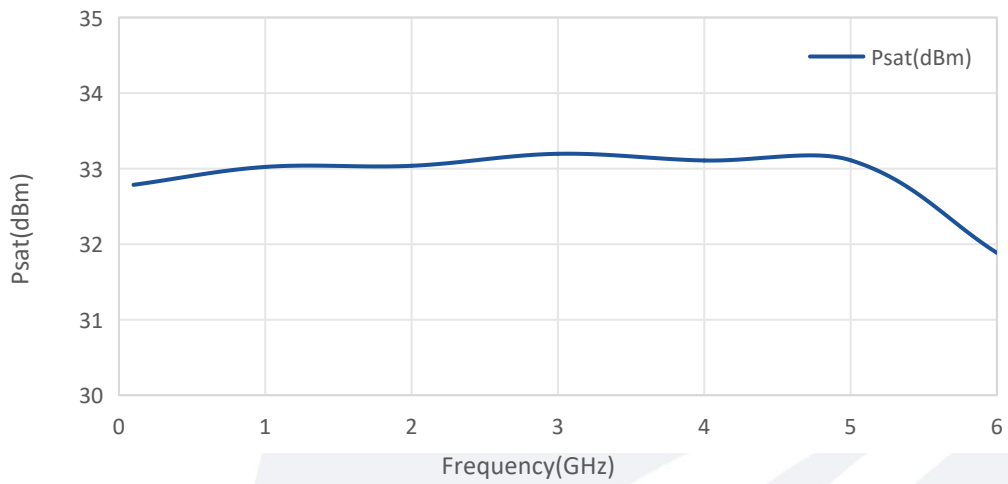
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

Typical Performance Data:

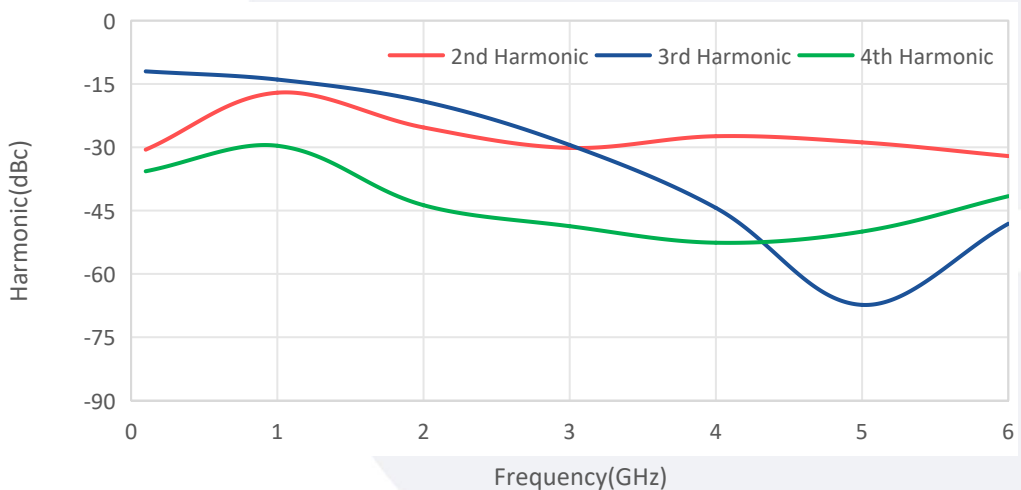
P1dB vs Frequency



Psat vs Frequency



Harmonics vs Frequency



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