泰莱微波
Talent Microwave

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Model:TLPA0.1G22G-31-32

Power Amplifier 0.1-22GHz,Gain:30dB,P1dB:30dBm

Feature:

- Ultra Wide Band: 0.1-22 GHz
- P1dB Output Power: 30 dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range		0.1-22		GHz
Gain*	28	30		dB
Gain Flatness		±5		dB
Output P1dB*	30			dBm
Supurious		60		dBc
Input/Output VSWR*			2.2	:1
DC Voltage		+18		V DC
DC Supply Current		0.9		A
Impedance		50		Ohms

*Note:These parameters deteriorate after 20 GHz

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Size	38*58.5*12.5	mm
Weight	200	g

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+18 V
RF Input Power	+10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Available 220V System Benchtop Amplifier

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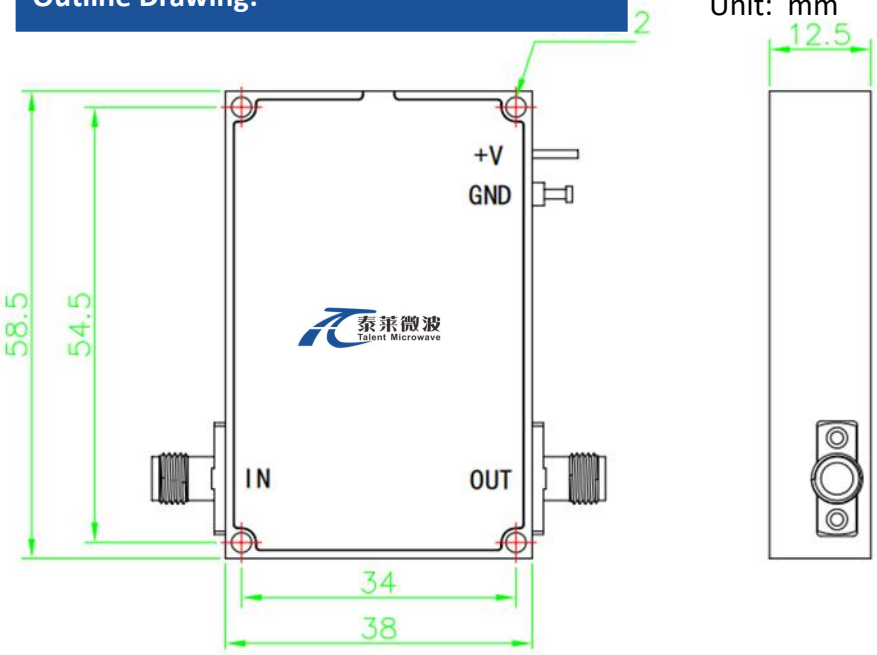
Outline Drawing:

Unit: mm



***Heat Sink Required During Operation

OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	-40		+60	℃
Non-operating Temperature*	-50		+70	℃
Relative humidity		95		%
Altitude	10,000			feet
Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth			
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
TLPA0.1G22G-31-32	Power amplifier 0.1-22GHz,Gain:30dB,P1dB:30dBm, +18V DC,Without Heatsink	Rev.1.1
TLPA0.1G22G-31-32-HS	Power amplifier 0.1-22GHz,Gain:30dB,P1dB:30dBm, +18V DC,With Heatsink	Rev.1.1

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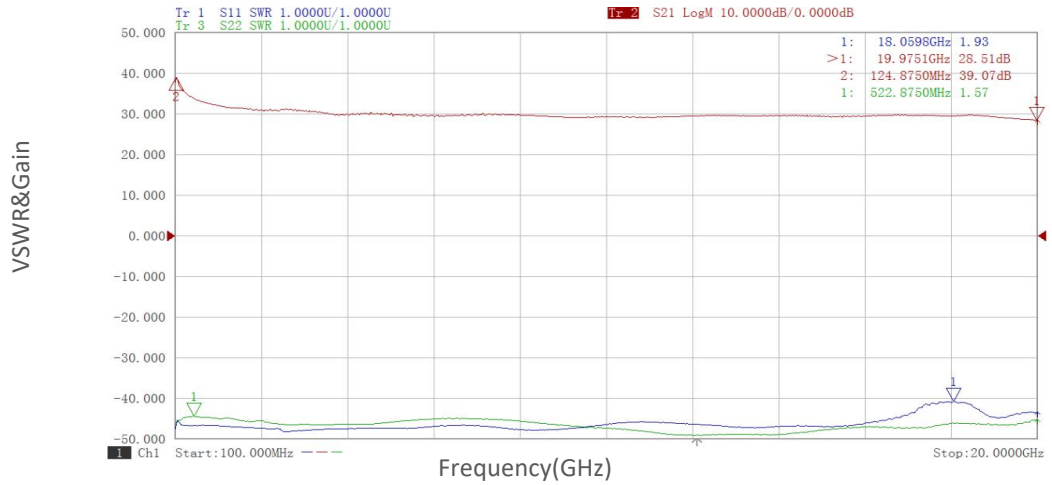
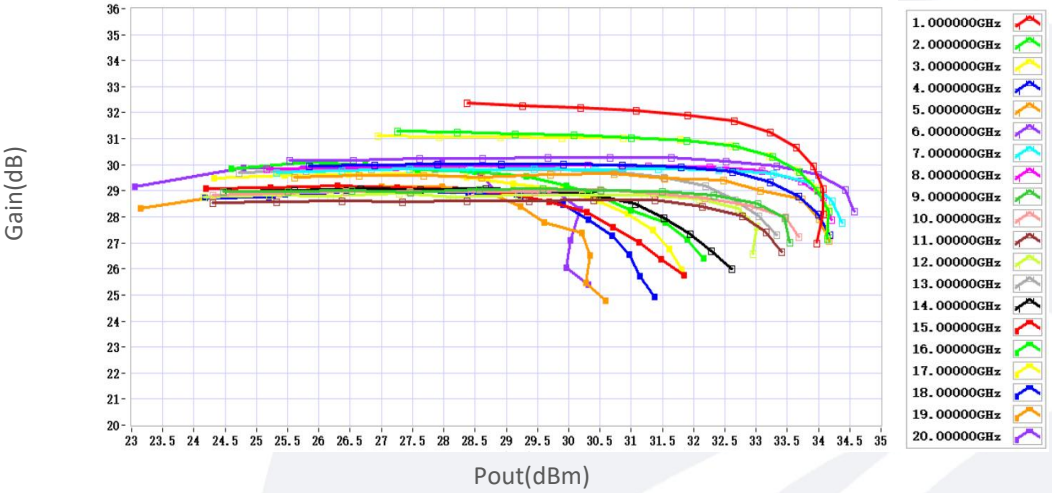
Typical Performance Data:

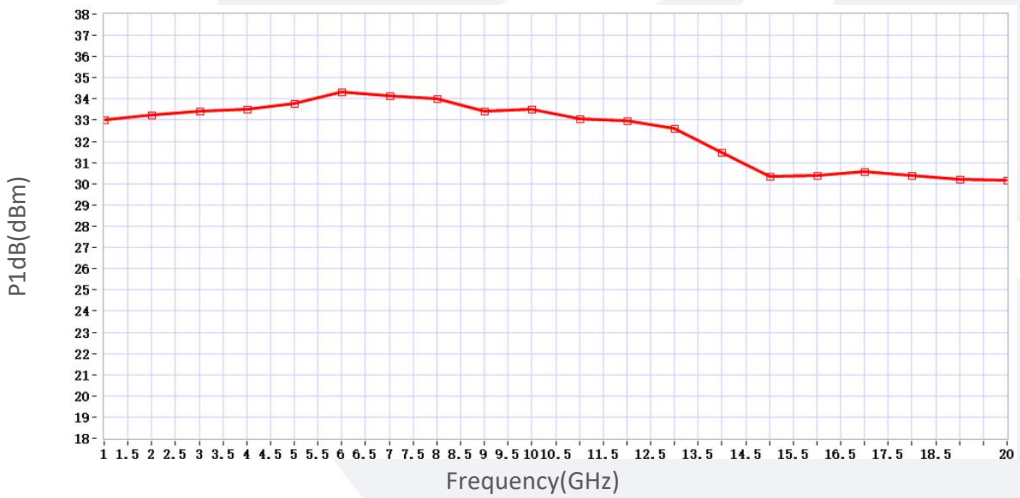
VSWR&Gain vs Frequency



Gain vs Output Power



P1dB vs Frequency



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.