

LT-PA-101G-33-33

Power Amplifier

10MHz-1GHz, Gain:33dB, Psat:33dBm

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Feature:

- Ultra Wide Band: 10MHz-1GHz
- Gain: 33dB Min
- Psat Output Power: 33 dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	0.01-1			GHz
Gain	33	35		dB
Gain Flatness		±2	±3	dB
Output Psat	33	34		dBm
Harmonics@Pout=33dBm		-15		dBc
Input VSWR		1.5	2	:1
DC Voltage		15	16	V DC
DC Supply Current		0.2	1	A
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female	
DC Bias	Solder Pin	
Size	76*48*15	mm
Weight	150	g

Absolute Maximum Ratings:

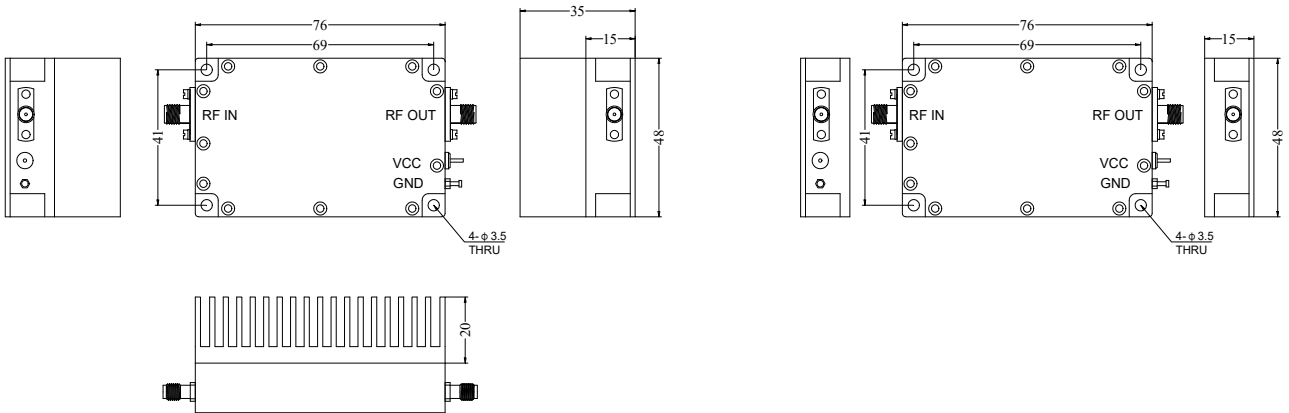
Parameter	Value
Supply Bias Voltage	16 V
RF Input Power	5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

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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	°C
Non-operating Temperature	-55		+125	°C
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
LT-PA-101G-33-33	Power amplifier 10MHz-1GHz,Gain:33dB,Psat:33dBm,15V DC, Without Heatsink	Rev.1.0
LT-PA-101G-33-33-HS	Power amplifier 10MHz-1GHz,Gain:33dB,Psat:33dBm,15V DC, With Heatsink	Rev.1.0

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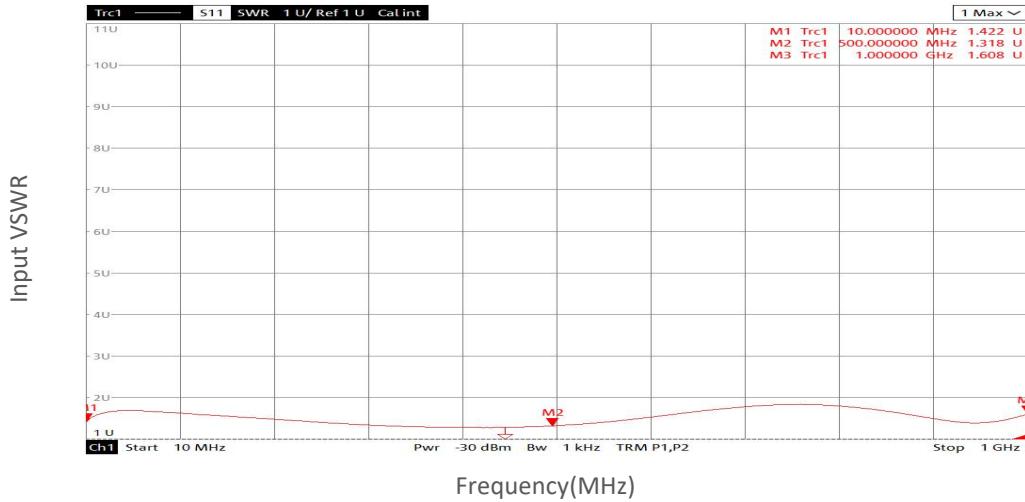
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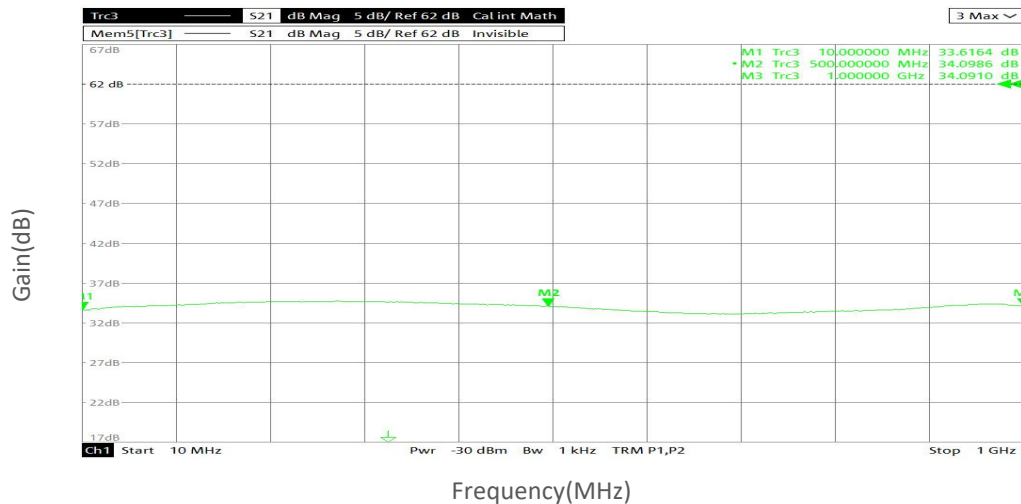


Typical Performance Data:

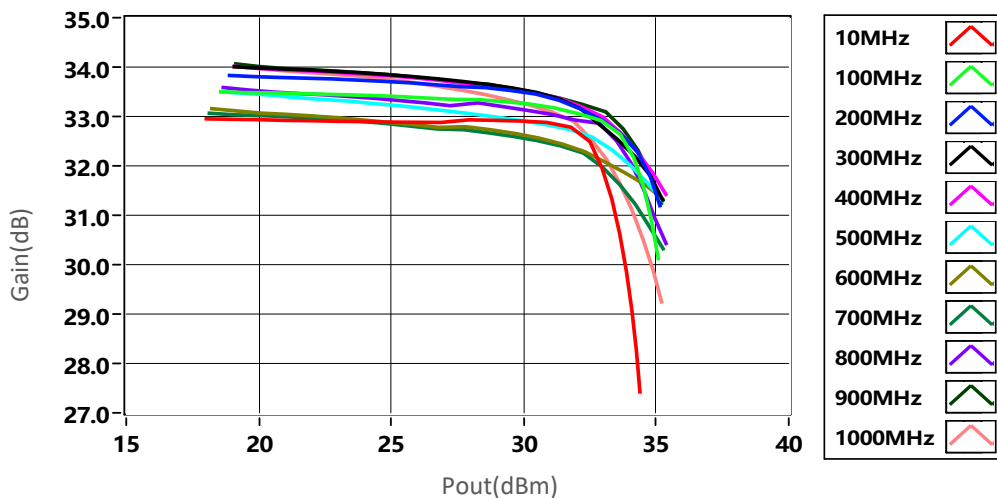
Input VSWR vs Frequency



Gain vs Frequency



Gain vs Output Power



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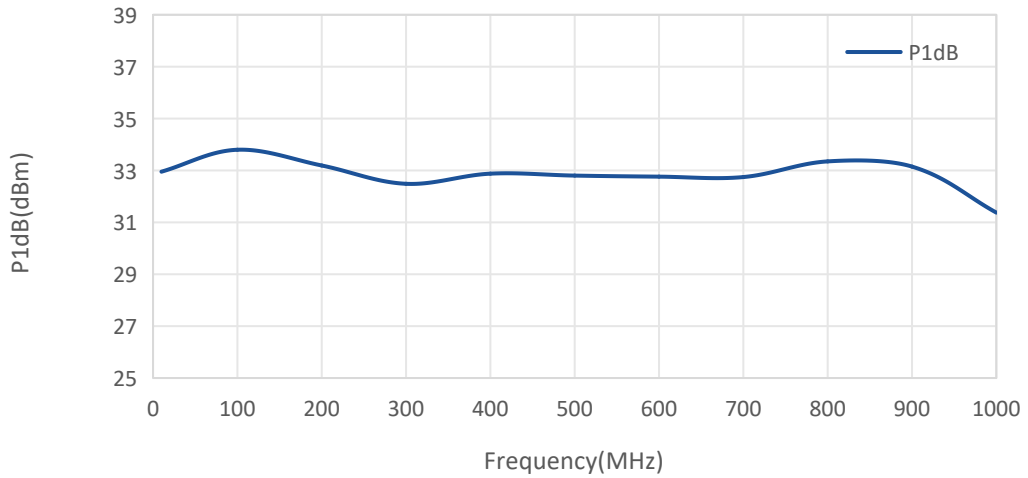
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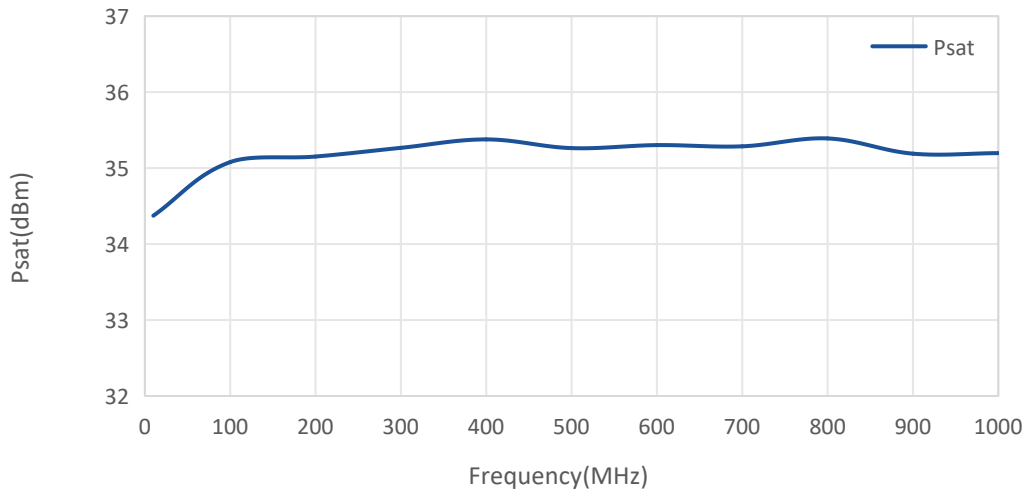


Typical Performance Data:

P1dB vs Frequency



Psat vs Frequency



Harmonics vs Frequency

