

LOW NOISE AMPLIFIER, 50KHz-67GHz, Gain 25dB

Model: LF-LA2550-50K67G

FEATURES:

- Ultra Wide Band: 50KHz-67GHz
- Gain: 25dB Typ
- Noise Figure: 5.0dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

ELECTRICAL SPECIFICATIONS:

Parameter	Min	Typ	Max	Units
Frequency range	50KHz-67GHZ			KHz/GHz
Gain		25		dB
Gain Flatness		±2.0		dB
Noise Figure		5		dB
Output P1dB		15		dBm
Output IP3		20		dBm
Input VSWR		2.0		:1
Output VSWR		2.0		:1
DC Voltage		+12		V DC
DC Supply Current		300		mA
Impedance	50			Ohms

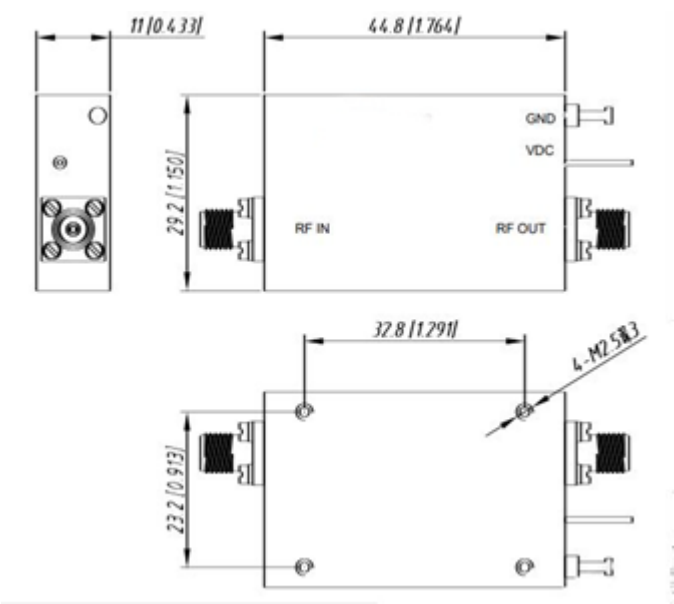
MECHANICAL SPECIFICATIONS:

Parameter	Value	Units
Input /Output Connector	1.85mm Female	
DC Bias	Solder Pin	
Size	44.8*29.2*11	mm
Weight	/	g

ABSOLUTE MAXIMUM RATINGS:

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

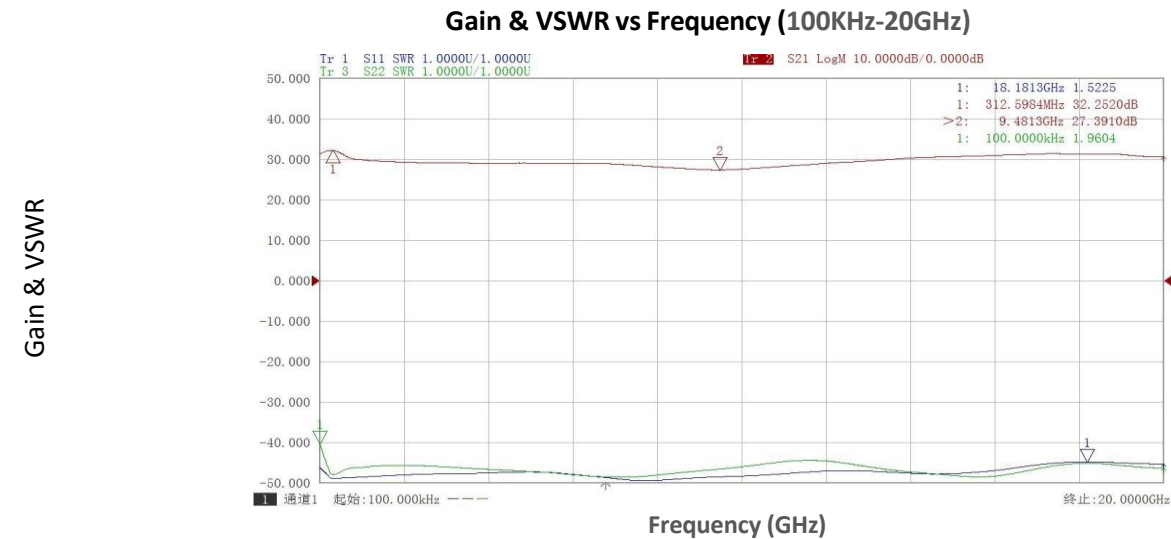
OUTLINE DRAWING: mm (inches). Heat Sink required during operation



ENVIRONMENTAL CONDITIONS:

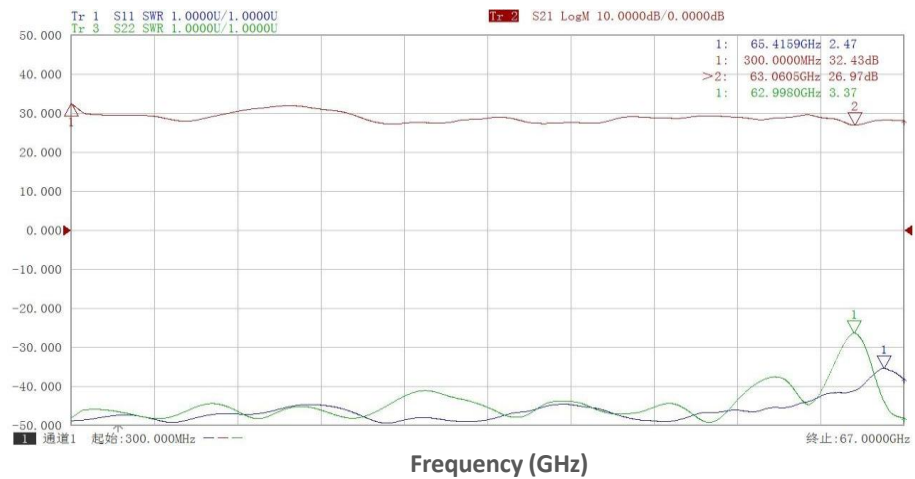
Parameter	Min	Typ	Max	Units
Operating Temperature	-40		+75	°C
Non-operating Temperature	-55		+85	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration (MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock (non operating)	20G for 11msc half sin wave,3 axis both directions			

TYPICAL PERFORMANCE DATA:

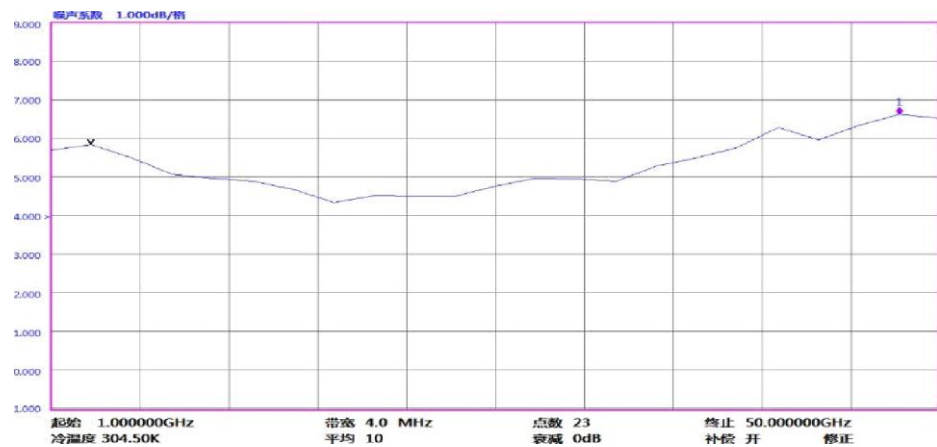


Gain & VSWR

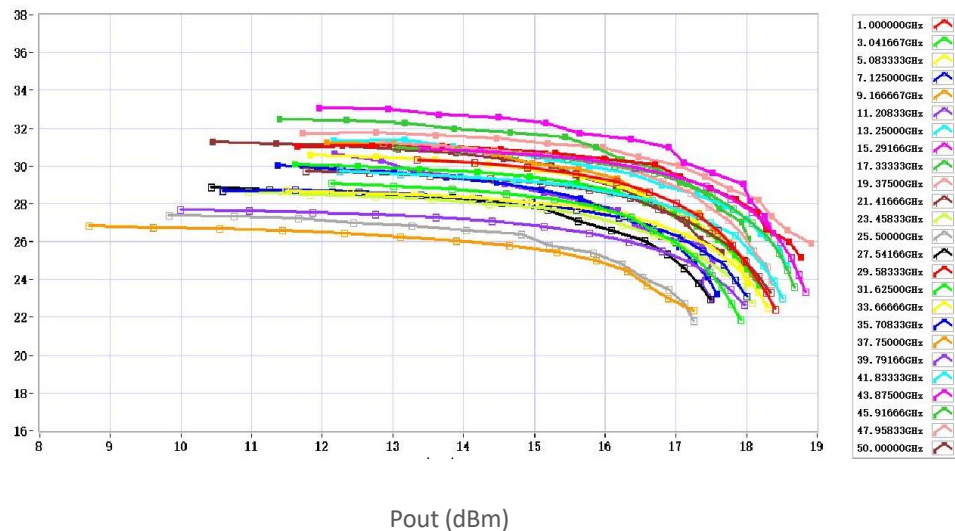
Gain & VSWR vs Frequency (300MHz-67GHz)



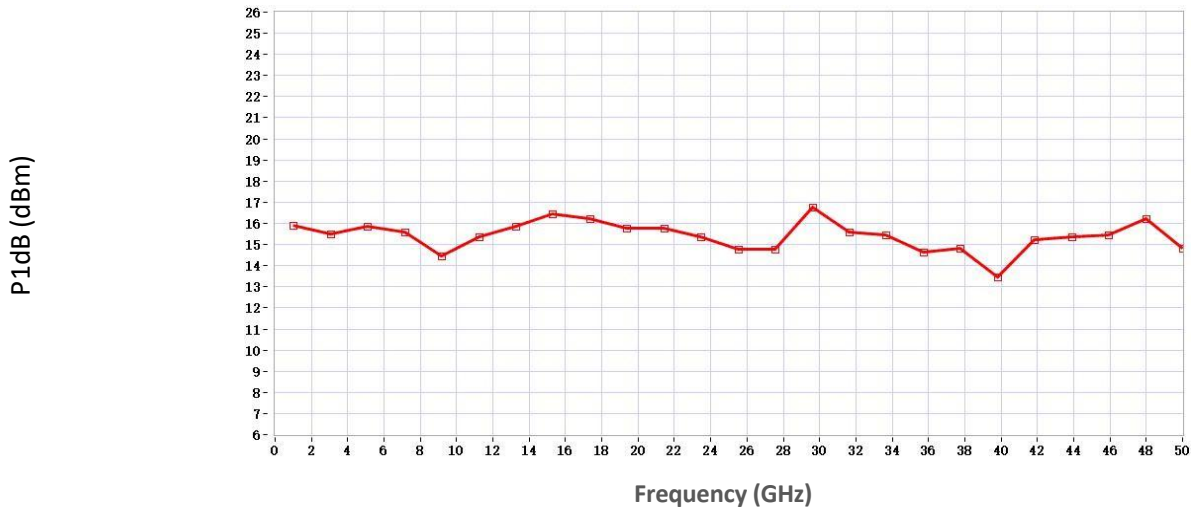
Noise Figure vs Frequency



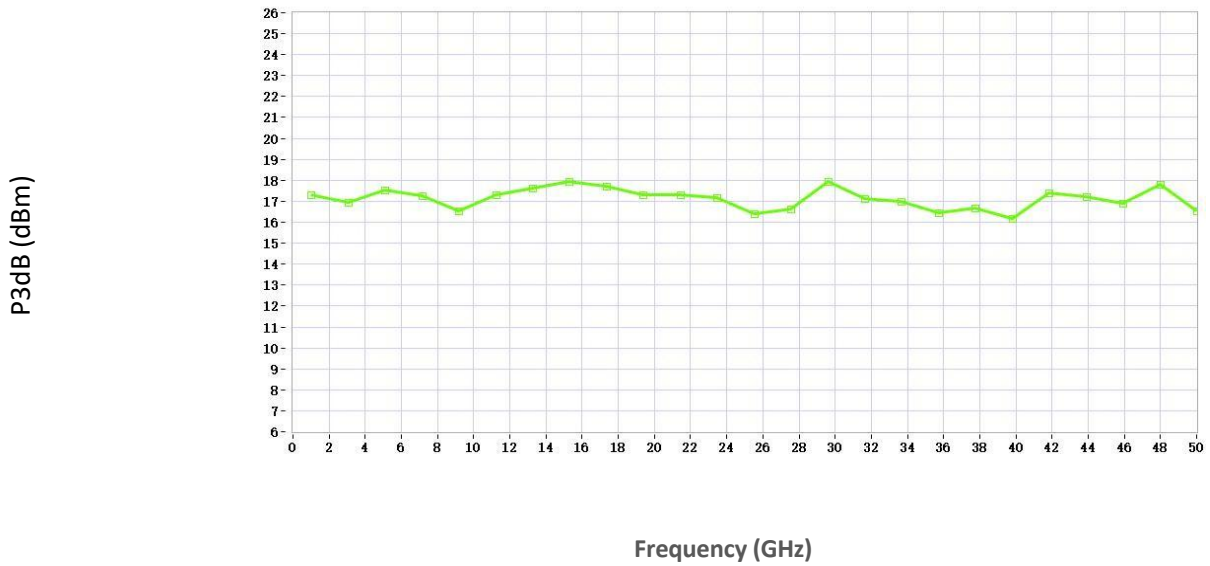
Gain vs Output Power



P1dB vs Frequency



P3dB vs Frequency



ORDERING INFORMATION:

Part Number	Description
LF-LA2550-50K67G	Low Noise Amplifier, 50K-67GHz, Noise Figure:5.0dB, Gain:25 dB,P1dB:15dBm,+12V DC, Without Heatsink
LF-LA2550-50K67G-HS	Low Noise Amplifier, 50K-67GHz, Noise Figure:5.0dB, Gain:25 dB,P1dB:15dBm,+12V DC, With Heatsink