

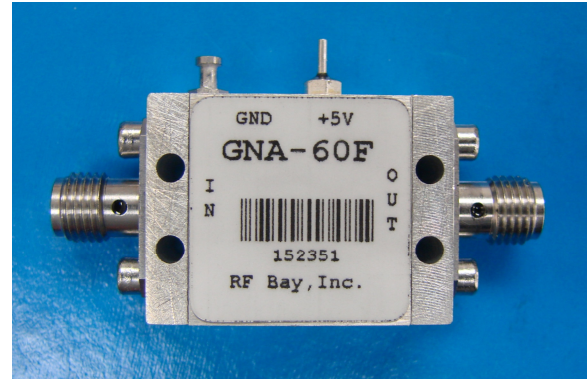
GNA Series

10 – 600MHz Low Noise Amplifier

Features

- Frequency Range: 10 – 600MHz
- Gain: 22dB
- P_{1dB}: +19dBm
- IP3: +33dBm
- Noise Figure: 0.7dB
- DC Power: +5 to +15V @ 65mA
- Reverse Polarity Protection
- Internally Voltage Regulated
- RF Connector: SMA-F

Photo



Description

GNA-60F is a high performance Low Noise Amplifier, with standard frequency range of 10MHz to 600MHz.

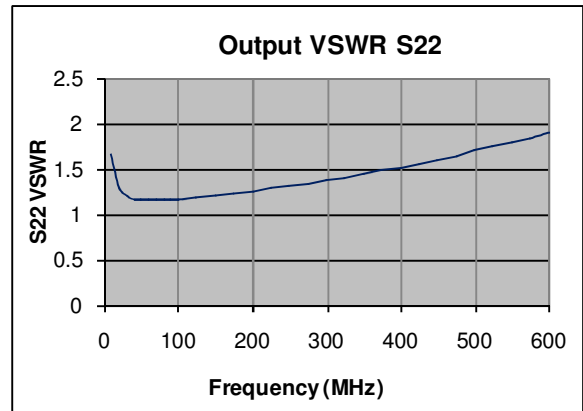
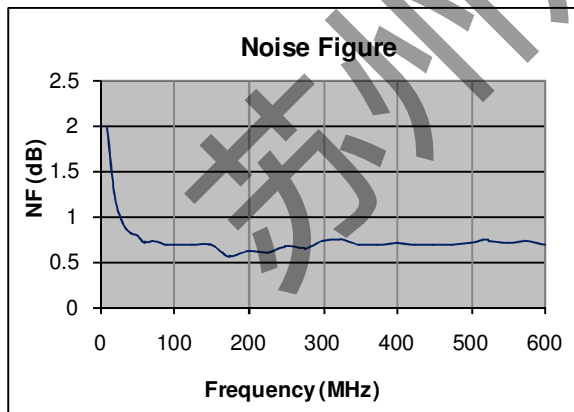
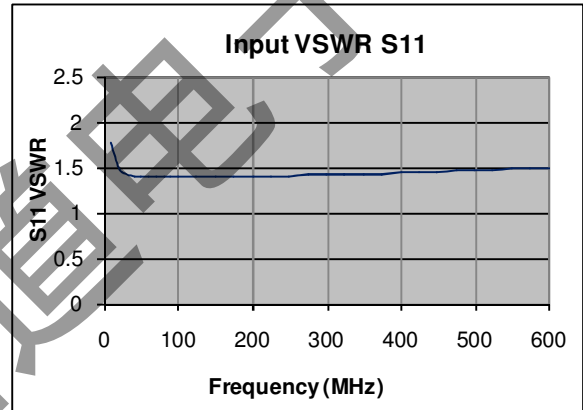
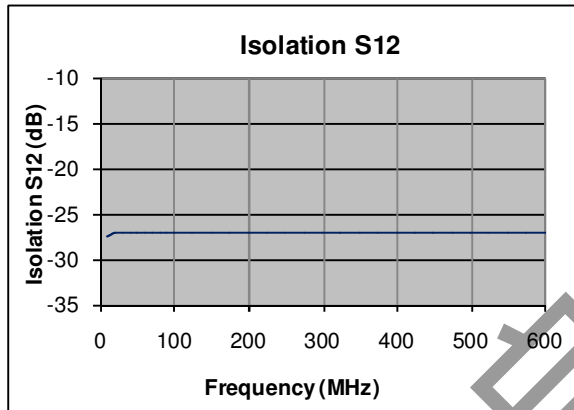
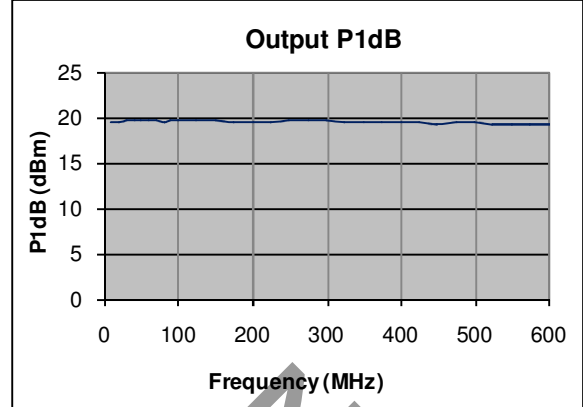
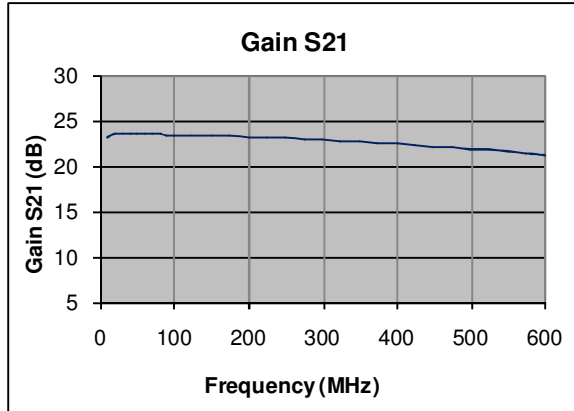
Electrical Specifications @+25 °C, Z_{in}=Z_{out}=50 Ω, V_{supply} = +5VDC

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	10		600
Gain (S ₂₁) f = 10MHz	dB	22	23.0	
f = 300MHz	dB	21	22.5	
f = 600MHz	dB	20	21.5	
Gain Variation Over Temperature	dB/°C		0.02	0.03
Output Power P _{1dB}	dBm	+18	+19	
Output Third Order Intercept IP3	dBm		+33	
Noise Figure @300MHz	dB		0.7	1.0
Reverse Isolation (S ₁₂) @300MHz	dB		-27	
VSWR-Input (S ₁₁)	ratio:1	1.8 @10MHz	1.5 @300MHz	1.5 @600MHz
VSWR-Output (S ₂₂)	(unitless)	1.7 @10MHz	1.4 @300MHz	1.9 @600MHz
DC Power Supply - voltage	V	5		15
DC Power Supply - current	mA		65	75
Operating Temperature	°C	-40		+85
Size (RF/DC feedthru's excluded)	Inch	1.00 (L) x 0.75 (W) x 0.45 (H)		
Weight	Oz	0.6 (17 grams)		

GNA Series

10 – 600MHz Low Noise Amplifier

Typical Performance @+25 °C



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10 – 600MHz Low Noise Amplifier

Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+15dBm
Supply Voltage (Survival)	+16V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +125 °C

Outline

