

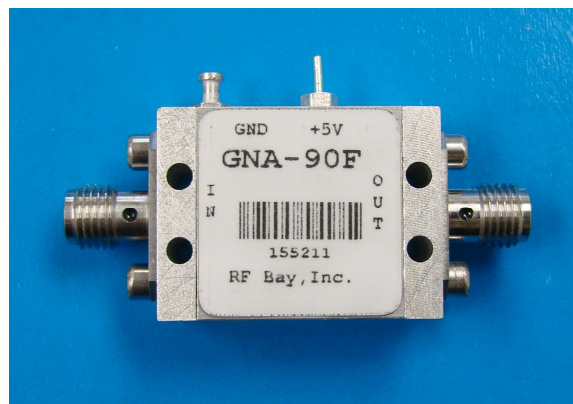
GNA Series

4 – 12GHz Low Noise Amplifier

Features

- Frequency Range: 4-12GHz
- Gain: 20dB
- P_{1dB}: +12dBm
- IP3: +22dBm
- Noise Figure: 1.7dB
- DC Power: +5V to +15V @ 50mA
- Internally Voltage Regulated
- RF Connector: SMA-Female

Photo



Description

GNA-90F is a high performance Microwave Low Noise Amplifier, with standard frequency range of 4GHz to 12GHz.

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

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	GHz	4		12
Gain (S ₂₁) f = 4GHz	dB		23.0	
f = 8GHz	dB		25.0	
f = 12GHz	dB		22.0	
Gain Variation Over Temperature	dB/°C		0.014	0.025
Output Power P _{1dB}	dBm		+12	
Saturated Output Power P _{Sat}	dBm		+14	
Output Third Order Intercept IP3	dBm		+22	
Noise Figure @8GHz	dB		1.7	
Reverse Isolation (S ₁₂) @8GHz	dB		-50	
VSWR-Input (S ₁₁)	ratio:1	1.8 @4GHz	1.2 @8GHz	1.8 @12GHz
VSWR-Output (S ₂₂)	(unitless)	1.7 @4GHz	1.9 @8GHz	1.6 @12GHz
DC Power Supply - voltage	V	5		15
DC Power Supply - current	mA		50	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

4 – 12GHz Low Noise Amplifier

Typical Performance @+25 °C

