

GNA Series

17 – 27GHz Low Noise Amplifier

Features

- Frequency Range: 17-27GHz
- Gain: 18dB
- P_{1dB}: +12dBm
- IP3: +23dBm
- Noise Figure: 2.4dB (typ.)
- DC Power: +5V to +15V @ 65mA
- Internally Voltage Regulated
- Field Replaceable SMA-F

Photo



Description

GNA-700F is a high performance Microwave Low Noise Amplifier, with standard frequency range of 17GHz to 27GHz.

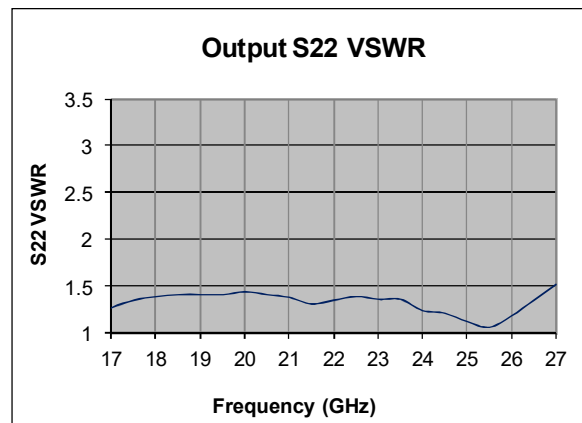
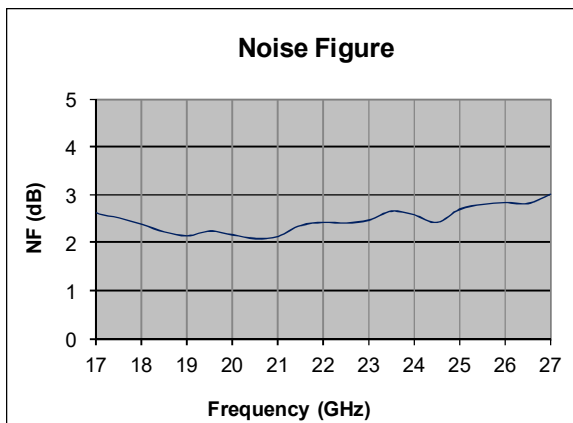
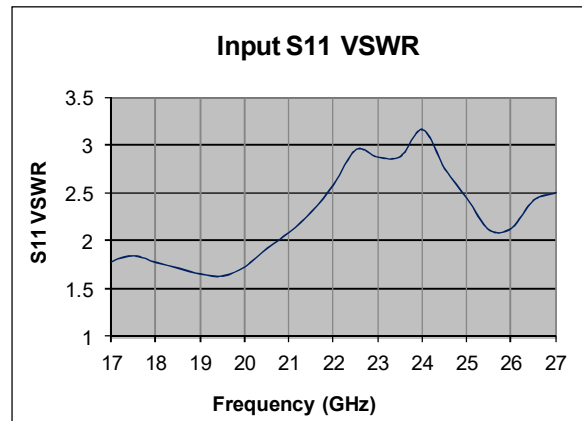
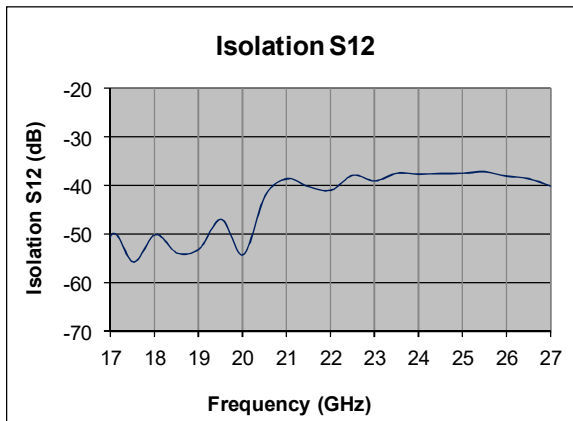
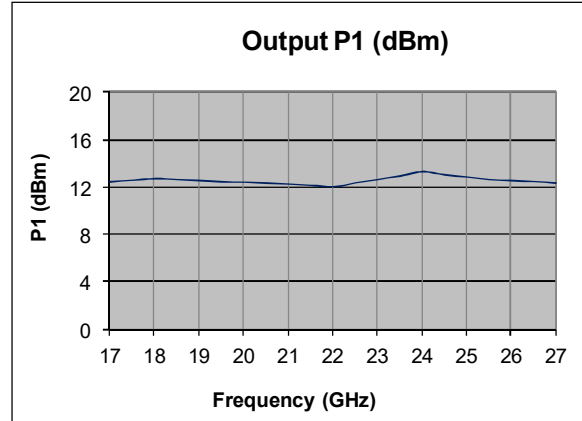
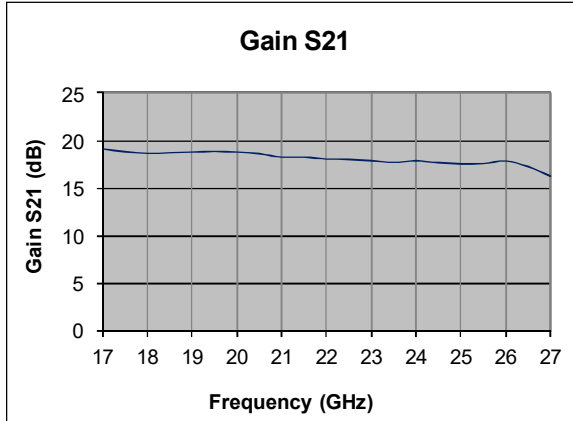
Electrical Specifications @+25°C, Z_{in}=Z_{out}=50 Ω, V_{supply} = +5VDC

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	GHz	17		27
Gain (S ₂₁) f = 17GHz	dB		19.0	
f = 22GHz	dB		18.0	
f = 27GHz	dB		16.3	
Gain Variation Over Temperature	dB/°C		0.015	0.025
Output Power P _{1dB}	dBm		+12	
Output Third Order Intercept IP3	dBm		+23	
Noise Figure @22GHz	dB		2.4	
Reverse Isolation (S ₁₂) @22GHz	dB		-40	
VSWR-Input (S ₁₁)	ratio:1	1.8 @17GHz	2.5 @22GHz	2.5 @27GHz
VSWR-Output (S ₂₂)	(unitless)	1.3 @17GHz	1.4 @22GHz	1.5 @27GHz
DC Power Supply - voltage	V	5		15
DC Power Supply - current	mA		65	85
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)		

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Typical Performance @+25 °C



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