

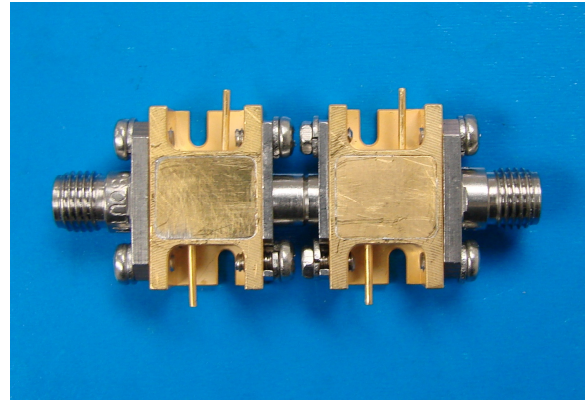
XNA Series

0.1 – 26.5GHz Low Noise Amplifier

Features

- Frequency Range: 0.1 – 26.5GHz
- Gain: 18dB min.
- P_{1dB}: +10dBm min.
- IP3: +20dBm
- Noise Figure: 4dB max.
- DC Power: 15V @ 275mA
- Field Replaceable SMA-F

Photo



Description

XNA-00102650-401018 is a high performance Microwave Low Noise (& Driver) Amplifier, with standard frequency range of 100MHz to 26.5GHz.

Electrical Specifications @+23 °C, Z_{in}=Z_{out}=50 Ω, V_{supply} = +15VDC

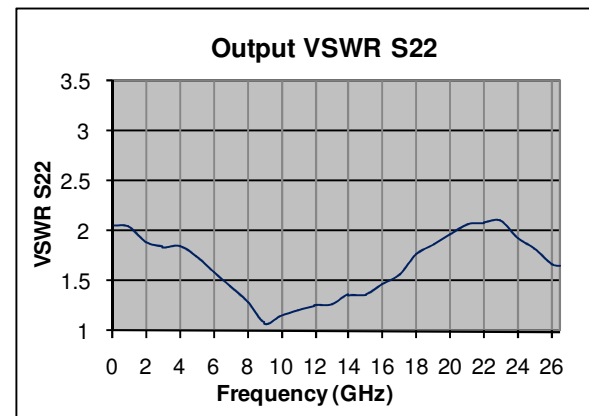
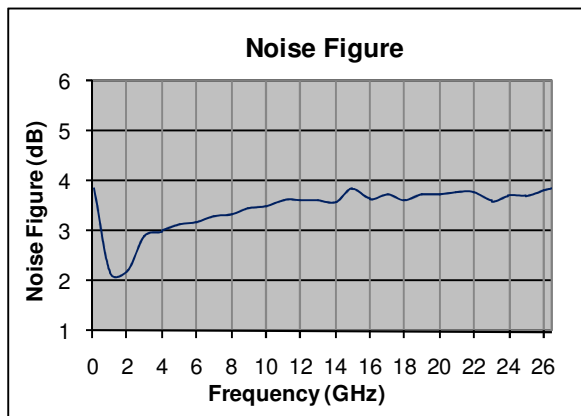
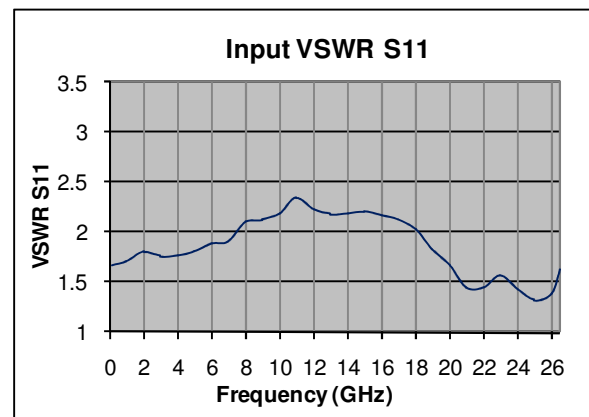
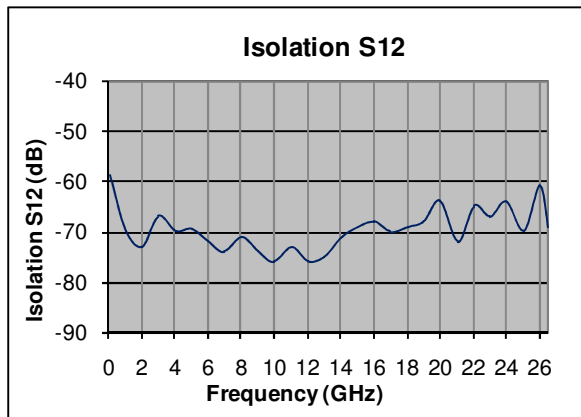
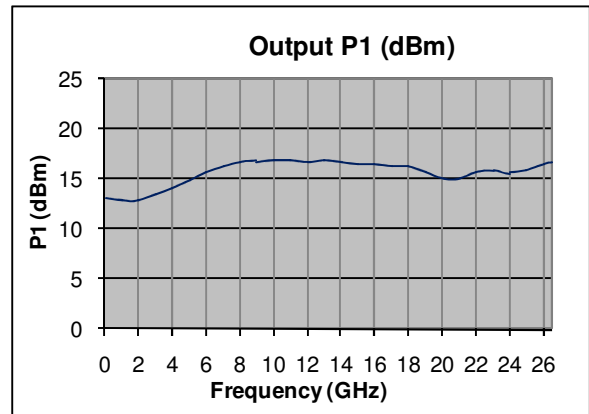
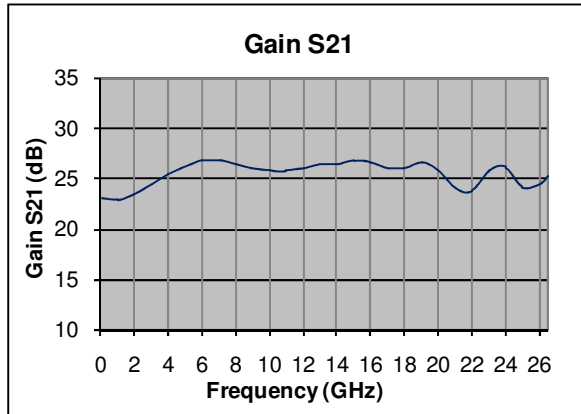
Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	GHz	0.1		26.5
Gain (S21)	dB	18		
Gain Flatness	dB		±2.0	±2.5
Output Power P _{1dB}	dBm	+10		
Output Third Order Intercept IP3	dBm		+20	
Noise Figure	dB			4.0
Isolation (S12)	dB	-55		
VSWR-Input (S11)	ratio:1			2.5:1
VSWR-Output (S22)	(unitless)			2.5:1
DC Power Supply - voltage	V	12	15	
DC Power Supply - current	mA		275	350
Operating Temperature	°C	-54		+85
Size (RF/DC feedthru's excluded)	Inch/mm	1.12 x 0.70 x 0.29/28.4 x 17.8 x 7.37 (LxWxH)		
Weight	Oz	0.5 (14.2 grams)		

WARNING: MUST USE HEAT SINK IF CASE TEMPERATURE EXCEEDS 50 °C

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Typical Performance @ +25 °C



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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+15dBm
Supply Voltage (Survival)	+16V
Operating Temperature	-54 °C to +85 °C
Storage Temperature	-55 °C to +125 °C

Outline

