

## LNA Series

## 50 – 1000MHz Low Noise Amplifier

### Features

- Frequency Range: 50 - 1000MHz
- Gain: 18dB
- P<sub>1dB</sub>: +17dBm
- IP3: +31dBm
- Noise Figure: 1.0dB
- DC Power: 12V/70mA
- SMA Connector

Performance measured @ 500MHz

### Description

LNA-1018 is a 1.0dB Noise Figure Low Noise 18dB Gain Amplifier operates with frequency range from 50 to 1000MHz.

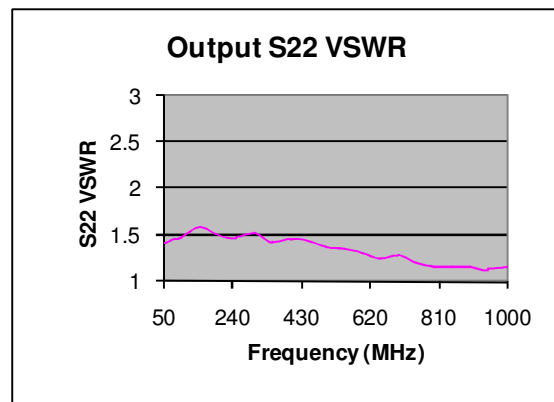
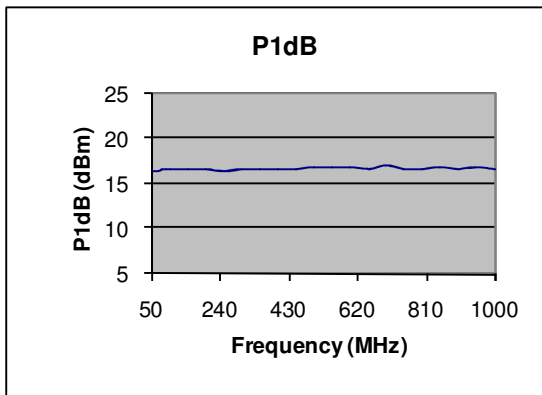
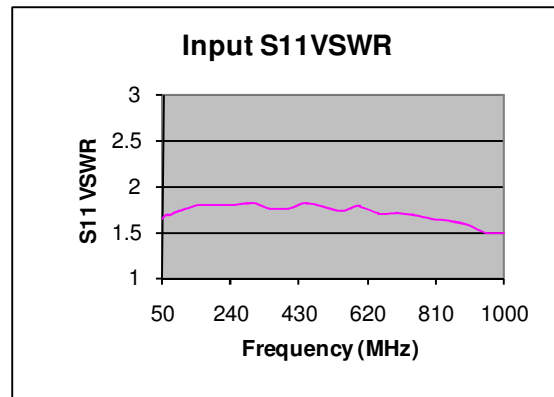
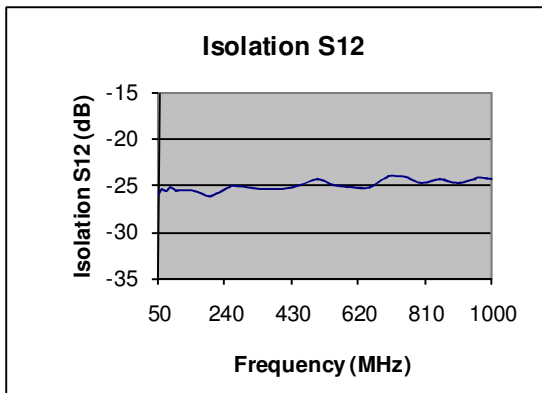
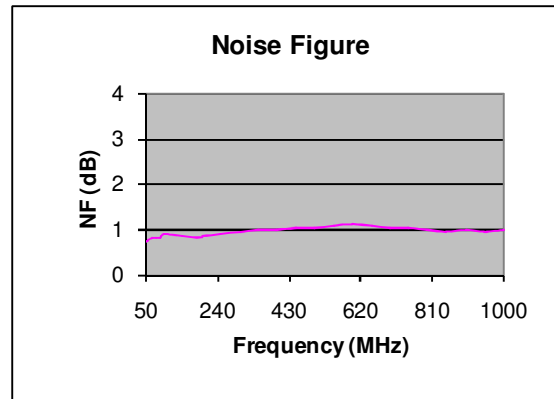
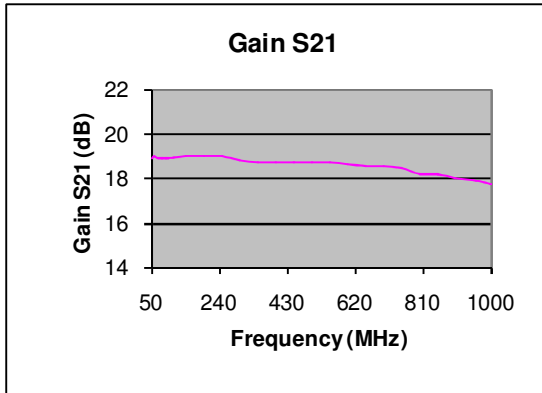
### Picture



### Electrical Specifications @ +25 °C, Z<sub>in</sub> = Z<sub>out</sub> = 50 Ω, V<sub>cc</sub> = +12V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	50		1000
Gain	dB		18	
Gain Flatness	dB		± 0.5	
P <sub>1dB</sub>	dBm		+17	
IP3	dBm		+31	
Noise Figure	dB		1.0	
Reverse Isolation	dB		-25	
VSWR Input VSWR			1.8:1	
Output VSWR			1.4:1	
DC Power Supply	V	10	12	18
Supply Current	mA		70	

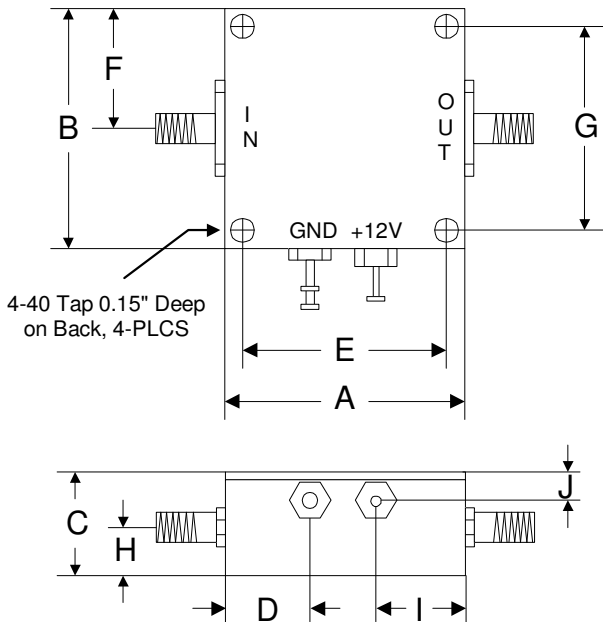
### Typical Performance @ +25 °C



### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+15dBm
Supply Voltage	+25V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +125 °C

### Outline



	A	B	C	D	E	F	G	H	I	J
Inch	1.250	1.250	0.563	0.450	1.000	0.625	1.000	0.250	0.500	0.187
mm	31.75	31.75	14.29	11.43	25.40	15.88	25.40	6.35	12.70	4.76