Narda-MITEQ AMPLIFIER LNA SERIES

The latest amplifier series from the world class leader of amplifier products and solutions

The New Narda-MITEQ LNA Series

Amplifier Features:

- **INDUSTRIES LARGEST LNA CATALOG OFFERING**
- **+10 dBm, +15 dBm, +20 dBm or +25 dBm**
- **UHF to Ka-band**
- **Commercial and Military Applications**

3 YEAR WARRANTY

WIDEBAND OR OCTAVE/MULTIOCTAVE LOW NOISE AMPLIFIER

TABLE OF CONTENTS

This catalog provides the design engineer with a broad overview of the LNA Series of amplifier products currently available from Narda-MITEQ. The devices presented here represent specific existing designs and the levels of performance they provide, and the shortest delivery available.

In addition to these standard products, much of Narda-MITEQ's production is devoted to custom designs, specifically tailored to meet individual customer requirements. Key amplifier parameters, such as frequency range, gain, gain slope, noise figure, VSWR, linearity and phase/gain tracking, can be optimized to *meet your specific needs.*

GENERAL SPECIFICATIONS

Narda-MITEQ's standard amplifiers have been designed to meet the following environmental conditions:

Operating temperature ... -55°C to +85°C

Storage temperature ..... -65°C to +125°C

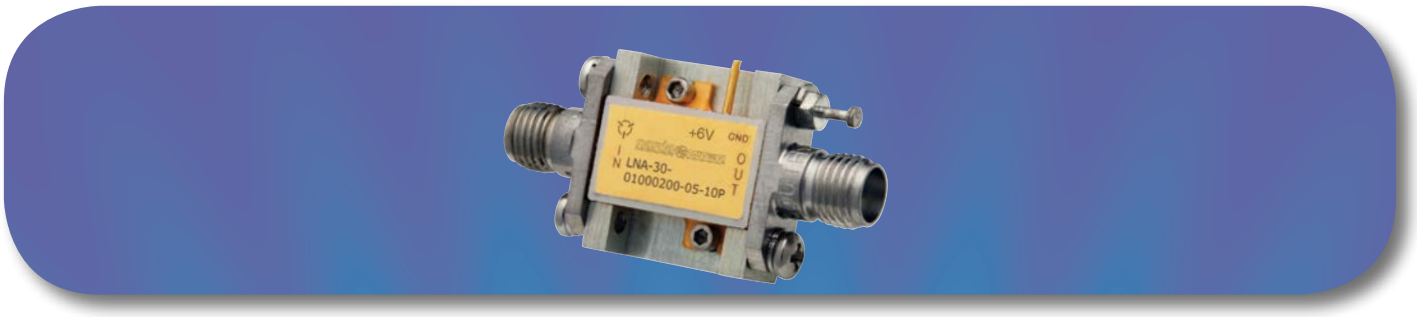
Shock (survival) ..... 30 g's, 10 ms pulse

Humidity ..... 95% relative humidity, noncondensing

Vibration ..... 7.3 g's rms, 50-2000 CPS, per MIL-STD-883K, Method 2026, Conditon IB

Data curves are at 23 °C. There will be some variation in the typical data shown as a function of temperature

1 GHz to 40 GHz, +10 dBm Series



FEATURES

- Unconditionally stable
- 50 Ohm input and output match
- Internally regulated
- -55°C to +85°C operating temperature
- Hermetically sealed package available
- RoHs compliant
- 3 year warranty

APPLICATIONS

- Radar and Satellite Communications
- Telecommunications
- Military and Aerospace
- Test Instrumentation
- Transceiver Subassembly Applications
- Laboratory Application
- R & D Labs

MODELS

FREQUENCY (GHz)	GAIN dB (Min.) (Select One)			NOISE FIGURE dB (Max.)			FLATNESS dB (± Max.)	VSWR (In/Out, Max.)	15 VDC @ Current mA (Max.)
1 to 2	20	30	40	0.6	0.6	0.6	1.5	2:1	250
2 to 4	20	30	40	0.6	0.5	0.5	1.5	2:1	250
4 to 8	20	30	40	0.7	0.7	0.7	1.5	2:1	250
8 to 12	20	30	40	0.9	0.9	0.9	1.5	2:1	250
12 to 18	20	30	40	1.3	1.3	1.3	2	2:1	250
18 to 26.5	20	30	40	2.2	2.0	2.0	2	2.3:1	300
26 to 40	20	30	40	2.7	2.7	2.7	2.5	2.5:1	325

ORDERING INFORMATION

Specify by part number: xxx-

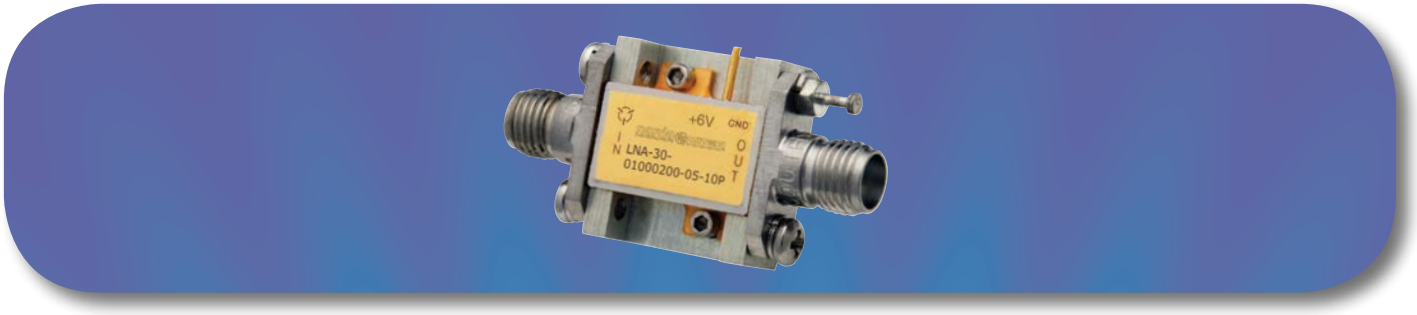
LNA-30-01000200-06-10P

Gain dB — Frequency GHz — Noise Figure dB

Example: 1 to 2 GHz, 30 dB gain, 0.6 dB noise figure, +10 dBm
LNA-30-01000200-06-10P

WIDEBAND OR OCTAVE/MULTIOCTAVE LOW NOISE AMPLIFIER

.1 GHz to 40 GHz, +10 dBm Series



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.1 to 4	20	30	40	1.5	1.3	1.3	1.5	2.2:1	250
.1 to 6	20	30	40	1.6	1.4	1.4	1.5	2.3:1	250
.1 to 8	20	30	40	1.7	1.5	1.5	2	2.3:1	250
.1 to 12	20	30	40	1.9	1.7	1.7	2	2.3:1	250
.1 to 18	20	30	40	2.6	2.5	2.5	2	2.3:1	300
.1 to 26	20	30	40	3	3	3	2.5	2.5:1	300
.1 to 40*	20	30	40	5.8	5.8	5.8	3	2.7:1	350

Notes: Noise figure increases below 500 MHz.
* P1dB +5 dBm, minimum

ORDERING INFORMATION

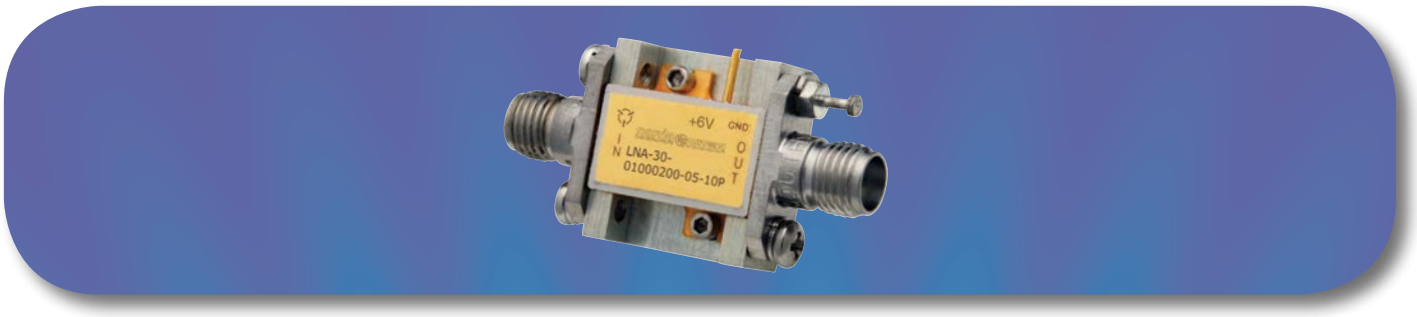
Specify by part number: xxx-

LNA-30-00100400-13-10P

Gain dB — Frequency GHz — Noise Figure dB

Example: 0.1 to 4 GHz, 30 dB gain, 1.3 dB noise figure, +10 dBm
LNA-30-00100400-13-10P

2 GHz to 40 GHz, +10 dBm Series



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MODELS

FREQUENCY (GHz)	GAIN dB (Min.) (Select One)			NOISE FIGURE dB (Max.)			FLATNESS dB (± Max.)	VSWR (In/Out, Max.)	15 VDC @ Current mA (Max.)
2 to 6	20	30	40	1	0.9	0.9	1.5	2:1	250
2 to 8	20	30	40	1.1	1.0	1.0	1.5	2:1	250
2 to 12	20	30	40	1.8	1.6	1.7	2	2.2:1	250
2 to 18	20	30	40	2.5	2.4	2.4	2	2.3:1	300
2 to 20	20	30	40	2.7	2.7	2.7	2.25	2.3:1	300
2 to 26	20	30	40	3.1	3.1	3.1	2.5	2.5:1	350
2 to 40*	20	30	40	6.0	5.7	5.7	3	2.7:1	400

* P1dB +5 dBm, minimum

ORDERING INFORMATION

Specify by part number: xxx-

LNA- 3 0 - 0 2 0 0 0 6 0 0 - 0 9 -10P

Gain dB — Frequency GHz — Noise Figure dB

Example: 2 to 6 GHz, 30 dB gain, 0.9 dB noise figure, +10 dBm
LNA-30-02000600-09-10P

WIDEBAND OR OCTAVE/MULTIOCTAVE LOW NOISE AMPLIFIER

4 GHz to 40 GHz, +10 dBm Series

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MODELS

FREQUENCY (GHz)	GAIN dB (Min.) (Select One)			NOISE FIGURE dB (Max.)			FLATNESS dB (± Max.)	VSWR (In/Out, Max.)	15 VDC @ Current mA (Max.)
4 to 12	20	30	40	1.7	1.5	1.5	2	2.2:1	300
6 to 18	20	30	40	1.7	1.5	1.5	2	2.3:1	300
8 to 18	20	30	40	1.6	1.4	1.4	2	2.3:1	300
12 to 26	20	30	40	2.8	2.7	2.7	2.5	2.5:1	350
18 to 40*	20	30	40	3.5	3.3	3.3	3	2.5:1	350

* P1dB +5 dBm, minimum

ORDERING INFORMATION

Specify by part number: xxx-

LNA-30-08001800-14-10P

Gain dB — Frequency GHz — Noise Figure dB

Example: 8 to 18 GHz, 30 dB gain, 1.4 dB noise figure, +10 dBm
LNA-30-08001800-14-10P

1 GHz to 40 GHz, +15 dBm Series

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MODELS

FREQUENCY (GHz)	GAIN dB (Min.) (Select One)			NOISE FIGURE dB (Max.)			FLATNESS dB (± Max.)	VSWR (In/Out, Max.)	15 VDC @ Current mA (Max.)
1 to 2	20	30	40	1	1	1	1.5	2:1	325
2 to 4	20	30	40	1	1	1	1.5	2:1	325
4 to 8	20	30	40	1.2	1.2	1.2	1.5	2:1	325
8 to 12	20	30	40	1.5	1.5	1.5	1.5	2:1	325
12 to 18	20	30	40	2	2	2	2	2:1	325
18 to 26.5	20	30	40	3	3	3	2	2.3:1	400
26 to 40	20	30	40	5.5	3.5	3.5	2.5	2.5:1	500

ORDERING INFORMATION

Specify by part number: xxx-

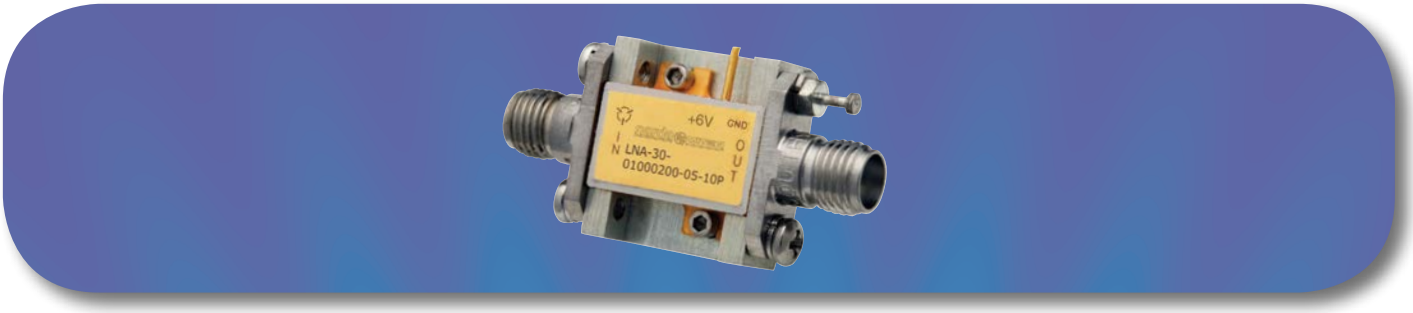
LNA-30-01000200-10-15P

Gain dB — Frequency GHz — Noise Figure dB

Example: 1 to 2 GHz, 30 dB gain, 1.0 dB noise figure, +15 dBm
LNA-30-01000200-10-15P

WIDEBAND OR OCTAVE/MULTIOCTAVE LOW NOISE AMPLIFIER

.1 GHz to 40 GHz, +15 dBm Series



FEATURES

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MODELS

FREQUENCY (GHz)	GAIN dB (Min.) (Select One)			NOISE FIGURE dB (Max.)			FLATNESS dB (± Max.)	VSWR (In/Out, Max.)	15 VDC @ Current mA (Max.)
.1 to 4	20	30	40	1.5	1.5	1.5	1.5	2.2:1	350
.1 to 6	20	30	40	1.8	1.8	1.8	1.5	2.3:1	350
.1 to 8	20	30	40	2	2	2	2	2.3:1	350
.1 to 12	20	30	40	2.2	2.2	2.2	2	2.3:1	350
.1 to 18	20	30	40	3.5	3.5	3.5	2	2.3:1	400
.1 to 26	20	30	40	4	4	4	2.5	2.5:1	450
.1 to 40*	20	30	40	7.5	7.5	7.5	3	2.7:1	550

Notes: Noise figure increases below 500 MHz.

ORDERING INFORMATION

Specify by part number: xxx-

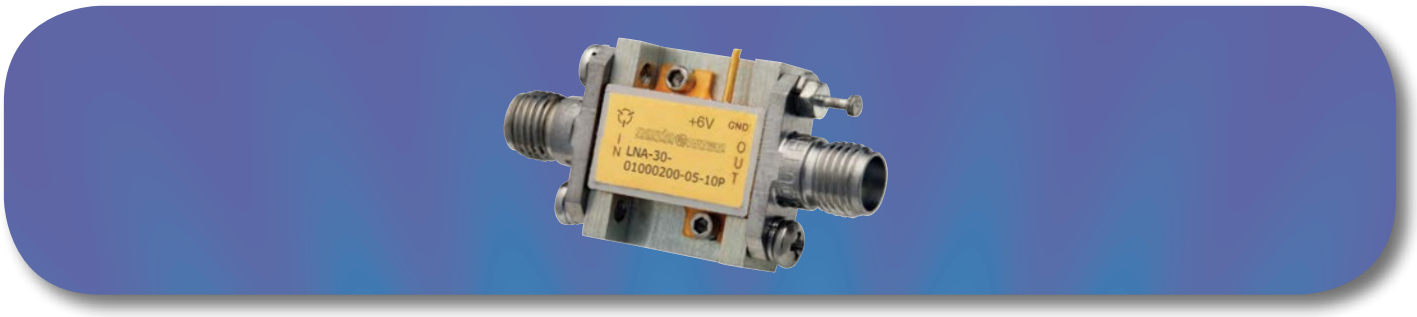
LNA-20-00100800-20-15P

Gain dB — Frequency GHz — Noise Figure dB

Example: .1 to 8 GHz, 20 dB gain, 2.0 dB noise figure, +15 dBm

LNA-20-00100800-20-15P

2 GHz to 40 GHz, +15 dBm Series



FEATURES

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MODELS

FREQUENCY (GHz)	GAIN dB (Min.) (Select One)			NOISE FIGURE dB (Max.)			FLATNESS dB (± Max.)	VSWR (In/Out, Max.)	15 VDC @ Current mA (Max.)
2 to 6	20	30	40	1.5	1.5	1.5	1.5	2:1	350
2 to 8	20	30	40	1.7	1.7	1.7	1.5	2:1	350
2 to 12	20	30	40	2	2	2	2	2.2:1	350
2 to 18	20	30	40	3.2	3.2	3.2	2	2.3:1	350
2 to 20	20	30	40	3.6	3.6	3.6	2.25	2.3:1	450
2 to 26	20	30	40	3.7	3.7	3.7	2.5	2.5:1	500
2 to 40	20	30	40	7	7	7	3	2.7:1	500

ORDERING INFORMATION

Specify by part number: xxx-

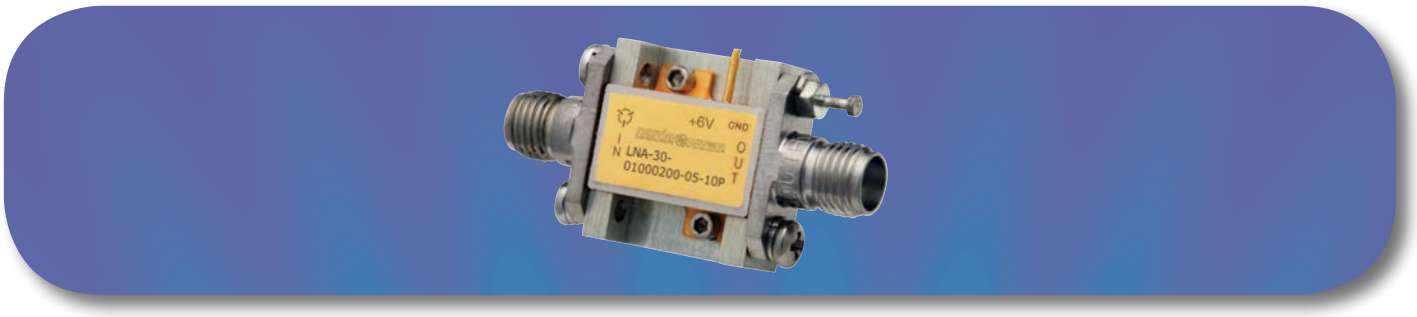
LNA- 4 0 - 0 2 0 0 1 2 0 0 - 2 5 -15P

Gain dB — Frequency GHz — Noise Figure dB

Example: 2 to 12 GHz, 40 dB gain, 2.5 dB noise figure, +15 dBm
LNA-40-02001200-25-15P

WIDEBAND OR OCTAVE/MULTIOCTAVE LOW NOISE AMPLIFIER

4 GHz to 40 GHz, +15 dBm Series



FEATURES

- Unconditionally stable
- 50 Ohm input and output match
- Internally regulated
- -55°C to +85°C operating temperature
- Hermetically sealed package available
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- 3 year warranty

APPLICATIONS

- Radar and Satellite Communications
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MODELS

FREQUENCY (GHz)	GAIN dB (Min.) (Select One)			NOISE FIGURE dB (Max.)			FLATNESS dB (± Max.)	VSWR (In/Out, Max.)	15 VDC @ Current mA (Max.)
4 to 12	20	30	40	2	2	2	2	2.2:1	400
6 to 18	20	30	40	2.5	2.5	2.5	2	2.3:1	400
8 to 18	20	30	40	2.3	2.3	2.3	2	2.3:1	400
12 to 26	20	30	40	3.2	3.2	3.2	2.5	2.5:1	450
18 to 40	20	30	40	5.5	4	4	3	2.5:1	500

ORDERING INFORMATION

Specify by part number: xxx-

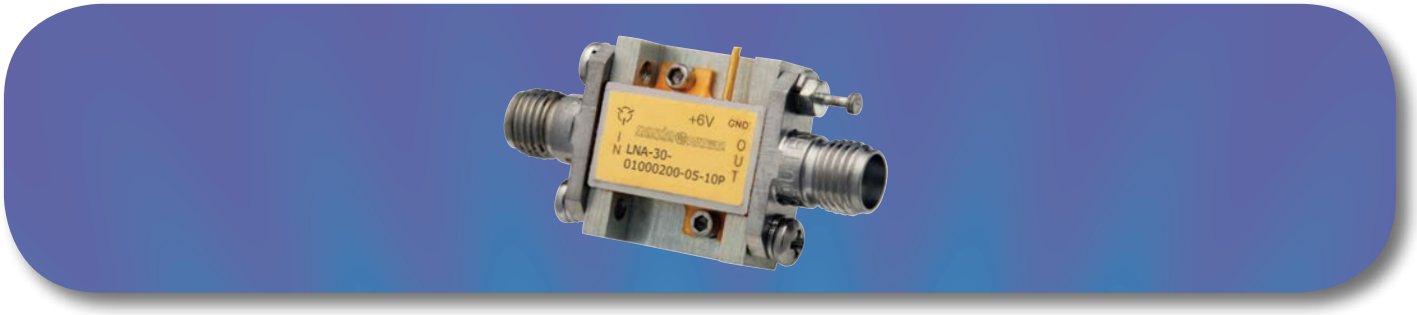
LNA-30-18004000-40-15P

Gain dB — Frequency GHz — Noise Figure dB

Example: 18 to 40 GHz, 30 dB gain, 4.0 dB noise figure, +15 dBm

LNA-30-18004000-40-15P

1 GHz to 26.5 GHz, +20 dBm Series



FEATURES

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FREQUENCY (GHz)	GAIN dB (Min.) (Select One)			NOISE FIGURE dB (Max.)			FLATNESS dB (± Max.)	VSWR (In/Out, Max.)	15 VDC @ Current mA (Max.)
1 to 2	20	30	40	2.5	2.5	2.5	1.5	2:1	325
2 to 4	20	30	40	2.5	2.5	2.5	1.5	2:1	325
4 to 8	20	30	40	3	3	3	1.5	2:1	325
8 to 12	20	30	40	3	3	3	1.5	2:1	325
12 to 18	20	30	40	3	3	3	2	2:1	325
18 to 26.5	20	30	40	5	5	5	2	2.3:1	400

ORDERING INFORMATION

Specify by part number: xxx-

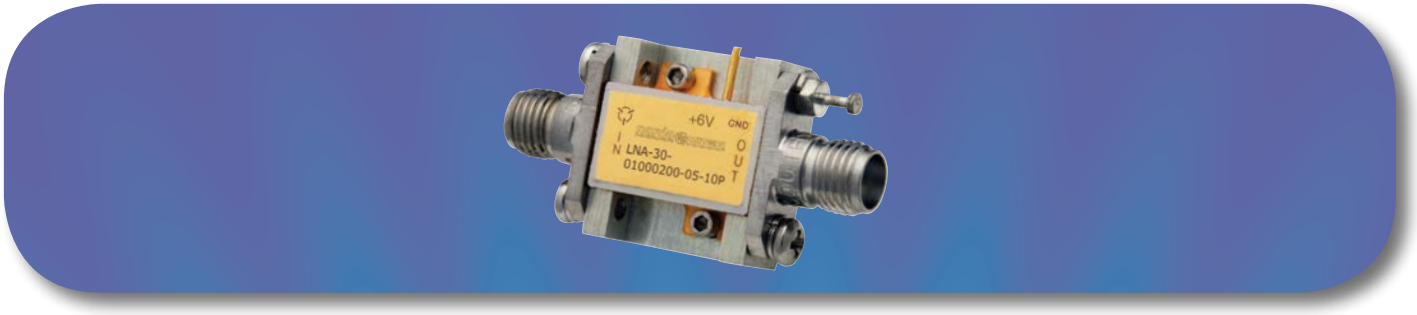
LNA-30-01000200-25-20P

Gain dB — Frequency GHz — Noise Figure dB

Example: 1 to 2 GHz, 30 dB gain, 2.5 dB noise figure, +20 dBm
LNA-30-01000200-25-20P

WIDEBAND OR OCTAVE/MULTIOCTAVE LOW NOISE AMPLIFIER

.1 GHz to 26 GHz, +20 dBm Series



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.1 to 4	20	30	40	3	3	3	1.5	2.2:1	350
.1 to 6	20	30	40	3.5	3.5	3.5	1.5	2.3:1	350
.1 to 8	20	30	40	4	4	4	2	2.3:1	350
.1 to 12	20	30	40	4.2	4.2	4.2	2	2.3:1	350
.1 to 18	20	30	40	4.5	4.5	4.5	2	2.3:1	400
.1 to 26	20	30	40	5	5	5	2.5	2.5:1	450

Notes: Noise figure increases below 500 MHz.

ORDERING INFORMATION

Specify by part number: xxx-

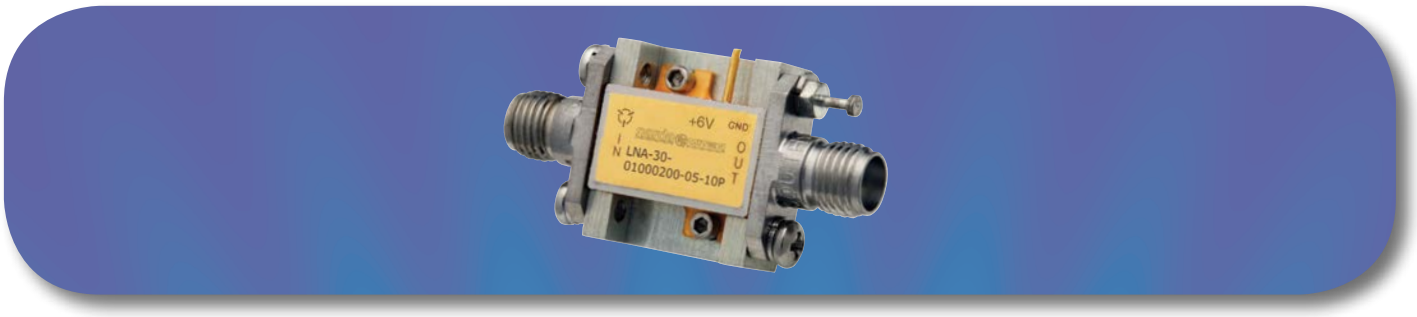
LNA- 4 0 - 0 0 1 0 1 8 0 0 - 4 5 -20P

Gain dB | Frequency GHz | Noise Figure dB

Example: .1 to 18 GHz, 40 dB gain, 4.5 dB noise figure, +20 dBm

LNA-40-00101800-45-20P

2 GHz to 26 GHz, +20 dBm Series



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2 to 6	20	30	40	3	3	3	1.5	2:1	350
2 to 8	20	30	40	3.2	3.2	3.2	1.5	2:1	350
2 to 12	20	30	40	3.3	3.3	3.3	2	2.2:1	350
2 to 18	20	30	40	4	4	4	2	2.3:1	450
2 to 20	20	30	40	4.2	4.2	4.2	2.25	2.3:1	450
2 to 26	20	30	40	4.7	4.7	4.7	2.5	2.5:1	500

ORDERING INFORMATION

Specify by part number: xxx-

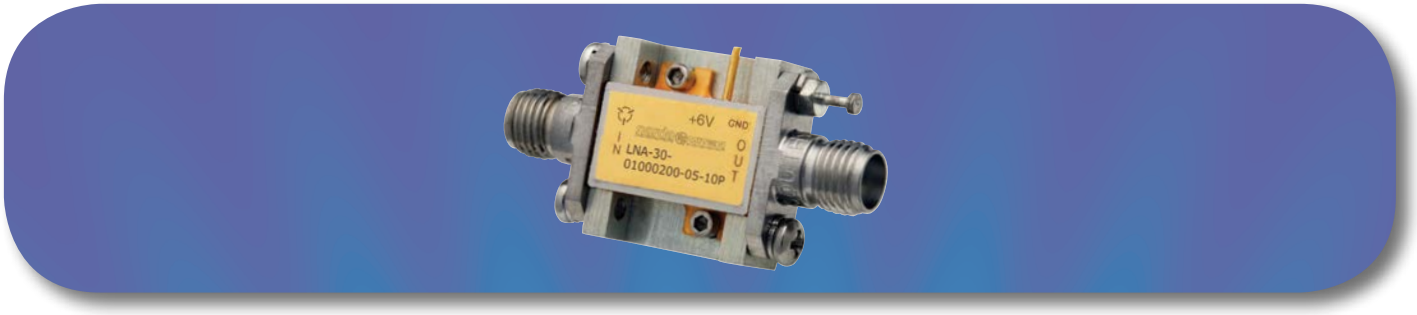
LNA-__20__-__02001200__-__33__-20P

Gain dB — Frequency GHz — Noise Figure dB

Example: 2 to 12 GHz, 20 dB gain, 3.3 dB noise figure, +20 dBm
LNA-20-02001200-33-20P

WIDEBAND OR OCTAVE/MULTIOCTAVE LOW NOISE AMPLIFIER

4 GHz to 26 GHz, +20 dBm Series



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FREQUENCY (GHz)	GAIN dB (Min.) (Select One)			NOISE FIGURE dB (Max.)			FLATNESS dB (± Max.)	VSWR (In/Out, Max.)	15 VDC @ Current mA (Max.)
4 to 12	20	30	40	3.5	3.5	3.5	2	2.2:1	400
6 to 18	20	30	40	3.5	3.5	3.5	2	2.3:1	400
8 to 18	20	30	40	3.2	3.2	3.2	2	2.3:1	400
12 to 26	20	30	40	3.8	3.8	3.8	2.5	2.5:1	450

ORDERING INFORMATION

Specify by part number: xxx-

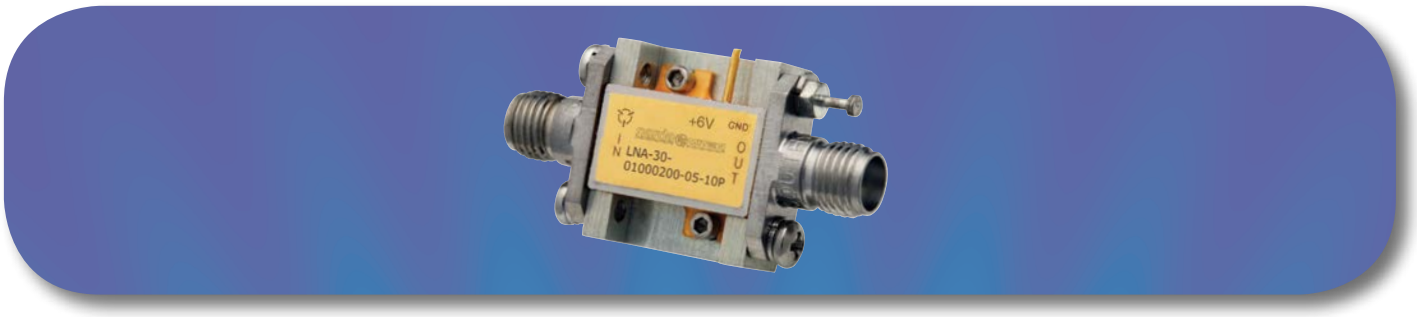
LNA- 4 0 - 1 2 0 0 2 6 0 0 - 3 8 -20P

Gain dB | Frequency GHz | Noise Figure dB

Example: 18 to 40 GHz, 40 dB gain, 9.0 dB noise figure, +20 dBm

LNA-40-18004000-90-20P

1 GHz to 26.5 GHz, +25 dBm Series



FEATURES

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1 to 2	20	30	40	3	3	3	1.5	2:1	475
2 to 4	20	30	40	3	3	3	1.5	2:1	475
4 to 8	20	30	40	3.5	3.5	3.5	1.5	2:1	475
8 to 12	20	30	40	3.5	3.5	3.5	1.5	2:1	550
12 to 18	20	30	40	3.5	3.5	3.5	2	2:1	650
18 to 26.5	20	30	40	5.5	5.5	5.5	2	2.3:1	650

ORDERING INFORMATION

Specify by part number: xxx-

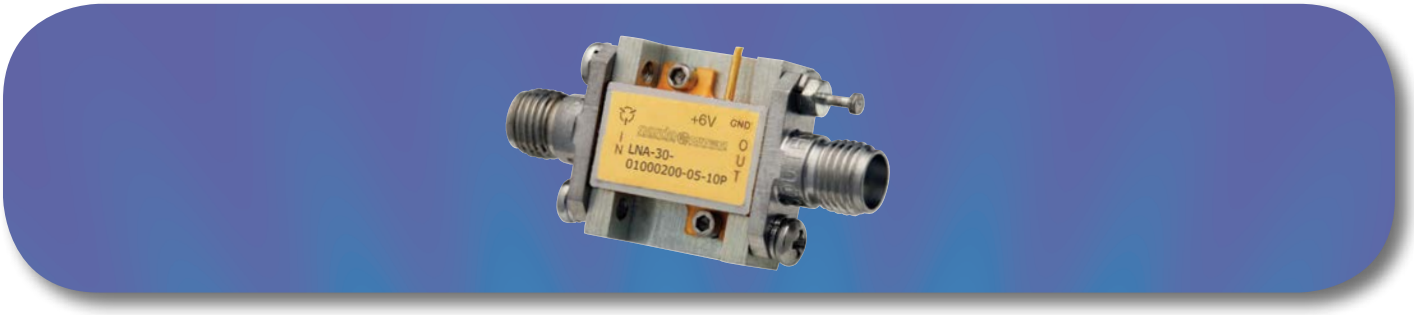
LNA-40-01000200-30-25P

Gain dB — Frequency GHz — Noise Figure dB

Example: 1 to 2 GHz, 40 dB gain, 3.0 dB noise figure, +25 dBm
LNA-40-01000200-30-25P

WIDEBAND OR OCTAVE/MULTIOCTAVE LOW NOISE AMPLIFIER

.1 GHz to 26 GHz, +25 dBm Series



FEATURES

- Unconditionally stable
- 50 Ohm input and output match
- Internally regulated
- -55°C to +85°C operating temperature
- Hermetically sealed package available
- RoHs compliant
- 1 year warranty

APPLICATIONS

- Radar and Satellite Communications
- Telecommunications
- Military and Aerospace
- Test Instrumentation
- Transceiver Subassembly Applications
- Laboratory Application
- R & D Labs

MODELS

FREQUENCY (GHz)	GAIN dB (Min.) (Select One)			NOISE FIGURE dB (Max.)			FLATNESS dB (± Max.)	VSWR (In/Out, Max.)	15 VDC @ Current mA (Max.)
.1 to 4	20	30	40	3.5	3.5	3.5	1.5	2.2:1	500
.1 to 6	20	30	40	4	4	4	1.5	2.3:1	500
.1 to 8	20	30	40	4.5	4.5	4.5	2	2.3:1	550
.1 to 12	20	30	40	4.7	4.7	4.7	2	2.3:1	550
.1 to 18	20	30	40	5.5	5.5	5.5	2	2.3:1	650
.1 to 26	20	30	40	6	6	6	2.5	2.5:1	650

Notes: Noise figure increases below 500 MHz.

ORDERING INFORMATION

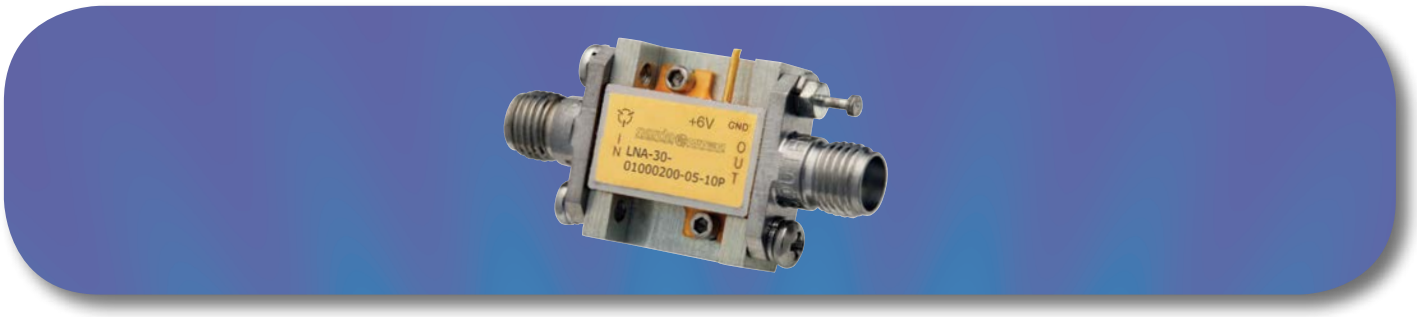
Specify by part number: xxx-

LNA-30-00101200-47-25P

Gain dB — Frequency GHz — Noise Figure dB

Example: .1 to 12 GHz, 30 dB gain, 4.7 dB noise figure, +25 dBm
LNA-30-00101200-47-25P

2 GHz to 26 GHz, +25 dBm Series



FEATURES

- Unconditionally stable
- 50 Ohm input and output match
- Internally regulated
- -55°C to +85°C operating temperature
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- RoHs compliant
- 1 year warranty

APPLICATIONS

- Radar and Satellite Communications
- Telecommunications
- Military and Aerospace
- Test Instrumentation
- Transceiver Subassembly Applications
- Laboratory Application
- R & D Labs

MODELS

FREQUENCY (GHz)	GAIN dB (Min.) (Select One)			NOISE FIGURE dB (Max.)			FLATNESS dB (± Max.)	VSWR (In/Out, Max.)	15 VDC @ Current mA (Max.)
2 to 6	20	30	40	3.7	3.7	3.7	1.5	2:1	500
2 to 8	20	30	40	4.3	4.3	4.3	1.5	2:1	550
2 to 12	20	30	40	4.5	4.5	4.5	2	2.2:1	550
2 to 18	20	30	40	5.2	5.2	5.2	2	2.3:1	650
2 to 20	20	30	40	5.5	5.5	5.5	2.25	2.3:1	650
2 to 26	20	30	40	5.8	5.8	5.8	2.5	2.5:1	650

ORDERING INFORMATION

Specify by part number: xxx-

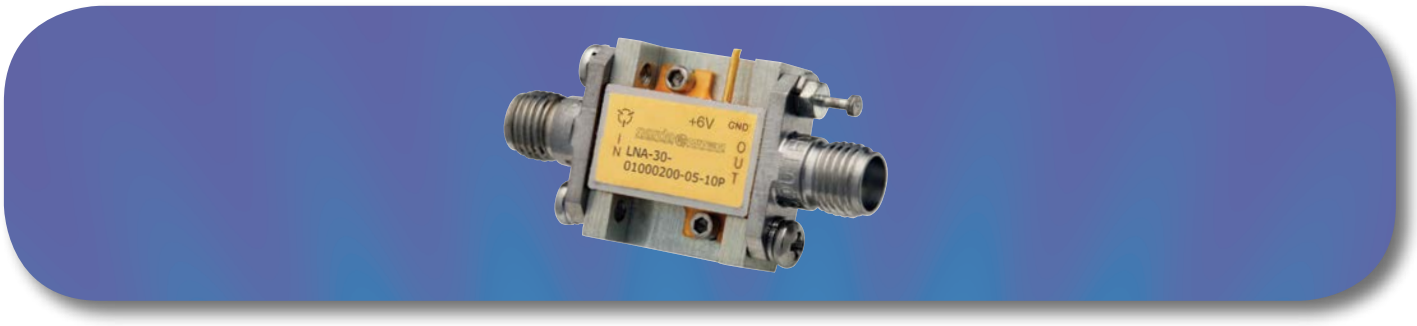
LNA-40-02002600-58-25P

Gain dB — Frequency GHz — Noise Figure dB

Example: 2 to 26 GHz, 40 dB gain, 5.8 dB noise figure, +25 dBm
LNA-40-02002600-58-25P

WIDEBAND OR OCTAVE/MULTIOCTAVE LOW NOISE AMPLIFIER

4 GHz to 26 GHz, +25 dBm Series



FEATURES

- Unconditionally stable
- 50 Ohm input and output match
- Internally regulated
- -55°C to +85°C operating temperature
- Hermetically sealed package available
- RoHs compliant
- 1 year warranty

APPLICATIONS

- Radar and Satellite Communications
- Telecommunications
- Military and Aerospace
- Test Instrumentation
- Transceiver Subassembly Applications
- Laboratory Application
- R & D Labs

MODELS

FREQUENCY (GHz)	GAIN dB (Min.) (Select One)			NOISE FIGURE dB (Max.)			FLATNES dB (± Max.)	VSWR (In/Out, Max.)	15 VDC @ Current mA (Max.)
4 to 12	20	30	40	4	4	4	2	2.2:1	550
6 to 18	20	30	40	4.5	4.5	4.5	2	2.3:1	650
8 to 18	20	30	40	4	4	4	2	2.3:1	650
12 to 26	20	30	40	5	5	5	2.5	2.5:1	650

ORDERING INFORMATION

Specify by part number: xxx-

LNA-20-08001800-40-25P

Gain dB — Frequency GHz — Noise Figure dB

Example: 18 to 40 GHz, 20 dB gain, 9.0 dB noise figure, +25 dBm

LNA-20-18004000-90-25P

GENERAL AMPLIFIER OPTIONS

Options for a variety of special performance and testing requirements as well as connector types can be identified by adding a suffix to the part number. The table below lists the most commonly requested options. Option requests should be accompanied by a description of the required performance details, as applicable.

STANDARD PERFORMANCE OPTIONS	SUFFIX	STANDARD PERFORMANCE OPTIONS	SUFFIX
Input Limiter	–L	SMA Male Connector	–M
Gain Window	–GW	K Type Connector	–K
Temperature Compensation	–TC	V Type Connector	–V
Phase Match	–PM	Waveguide Input	–WG
Amplitude Match	–AM	NPC Connector	–NP
Amplitude/Phase Match	–APM	N Type Connector	–N
Gain Control	–GC	TNC Type Connector	–T
Gain Slope	–GS		
Hermetic	–H		
Kovar Chassis	–KC		
Bias Through Output	–BTO		
Bias Through Input	–BTI		
Specific Operating Voltage	–XXV		
Gain Slope	–GS		
Phase and Gain Tracking	–PG		
Power Supply	–PS or –AS		
Combination of three or more standard options	–S		

OTHER AVAILABLE AMPLIFIERS

Narda-MITEQ is a leading supplier of RF and microwave components, equipment, and systems for both commercial and defense applications, including; satellite, avionics, reconnaissance, surveillance, radar, and electronic countermeasure systems. Our continued advancements in the state-of-the-art and unique capability have led to wide acceptance of our company as a forerunner in the field of low-noise amplifier technology for space applications. We are confident that based on our experience we can offer you the following:

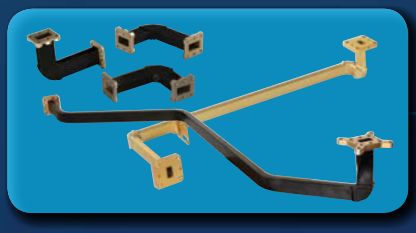
- **Mature technology with heritage on space flight platforms.**
- **An organization dedicated to developing and manufacturing the very best low-noise amplifiers for space use.**
- **A staff of amplifier experts with state-of-the-art experience in both space and military type amplifiers.**
- **Cost competitive products.**
- **Low risk (both technical and schedule), through an extensive inventory of standard designs.**
- **Very high reliability.**

Narda-MITEQ's continued advancements combining state-of-the-art components and unique capabilities have led to a wide acceptance by the microwave community as a leader in spaceborne technology. Our space-qualified components include mixers, oscillators, amplifiers, synthesizers and super-components.

Narda-MITEQ's Space-Qualified Quality Assurance Plan establishes the actions necessary to provide confidence that the end item will meet the quality, reliability and electrical performance required for space-qualified applications.

WIDEBAND OR OCTAVE/MULTIOCTAVE LOW NOISE AMPLIFIER

SATCOM



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