

High Performance L-Band Low Noise Amplifier

General Information

Intended for either indoor or outdoor environments, Locus Microwave, Inc. L31000 L Band Low Noise Amplifiers provide a combination of superior performance, reliability and cost effectiveness.

Specifications included are for a standard product. Please contact the factory for your custom/specific performance needs.

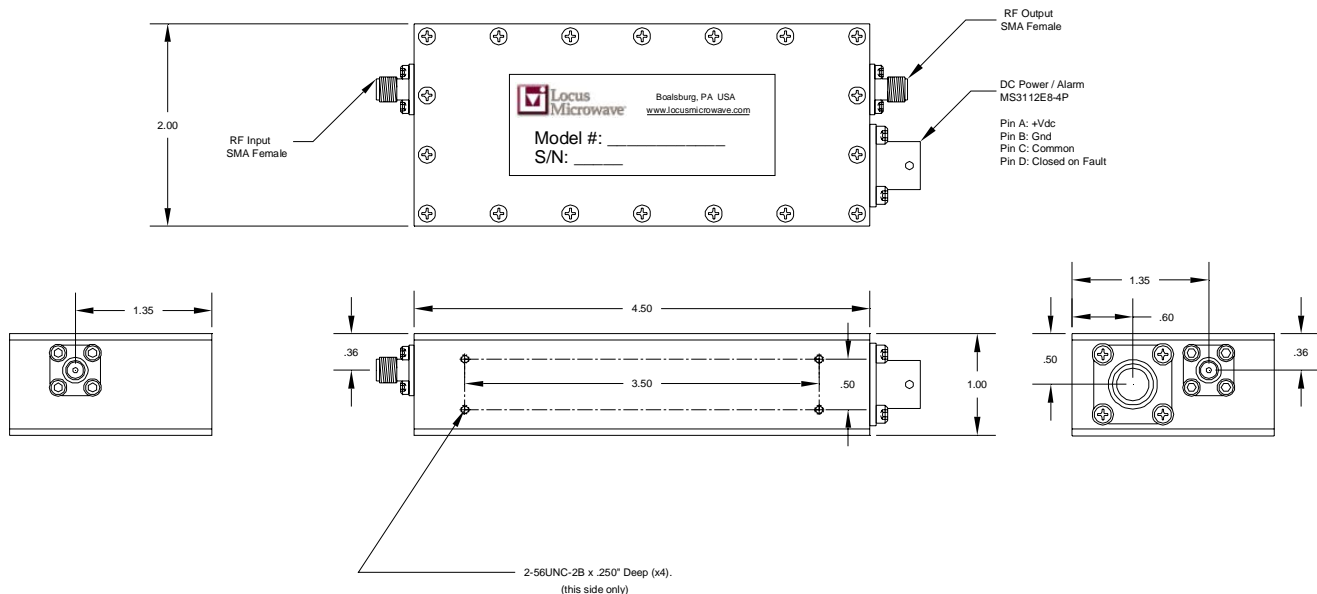
Features

- Outdoor packaging
- Choice of 30 thru 50 K Noise
- Integral Fault Alarm
- MTBF >150,000 hours

Options

- Input Isolator
- Custom Packaging

Outline Drawing



	Range	Units	Notes
Electrical Specifications			
Frequency	1510-1577 or 1525-1561	MHz	
Noise Temperature ¹	30, 35, 40, or 50 max.	K	@+23°K
Gain	50 min., 60 dB optional	dB	
Gain Flatness	+/- 0.5 max.	dB	per full band
Gain Slope	+/- 0.25 max.	dB	per 10 MHz
P _{1dB}	+12 min.	dBm	+20 dBm optional
OIP ₃	+22 min.	dBm	+30 dBm optional
VSWR			
Input	1.5 max., 1.3 typ.	:1	
Output	1.5 max., 1.3 typ.	:1	
Overdrive	0 max.	dBm	non-damaging
AM/PM Conversion	0.1 max.	%dB	@-5 dBm output
Group Delay			
Linear	0.01 max.	ns/MHz	per 40 MHz
Parabolic	0.001 max.	ns/MHz ²	per 40 MHz
Ripple	0.1 max.	ns p-p	per 40 MHz
Power Requirement			
Input Voltage	+12 to +24	vdc	
Current	180 nom.	mA	300 mA nom. for +20 dBm option
Fault Alarm	contact closure	Form 'A'	current sensing
Mechanical Specifications			
Outline	4.5 X 2.0 X 1.0	in.	L X W X H
Weight	0.65	lbs.	
Finish	paint	white	epoxy enamel
Connectors			
RF Input, RF Output	SMA		Female
Power/Alarm	4 pin	MS-type	plug
Environmental			
Operating Temperature	-40 to +60	°C	
Humidity	100	%	with condensation

Notes:

- Specify Noise Temperature at time of order.
- Contact factory for other selections of frequency, gain, etc.

Specifications are subject to change at the discretion of Locus Microwave, Inc.

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