

30-512 MHz Booster Amplifier

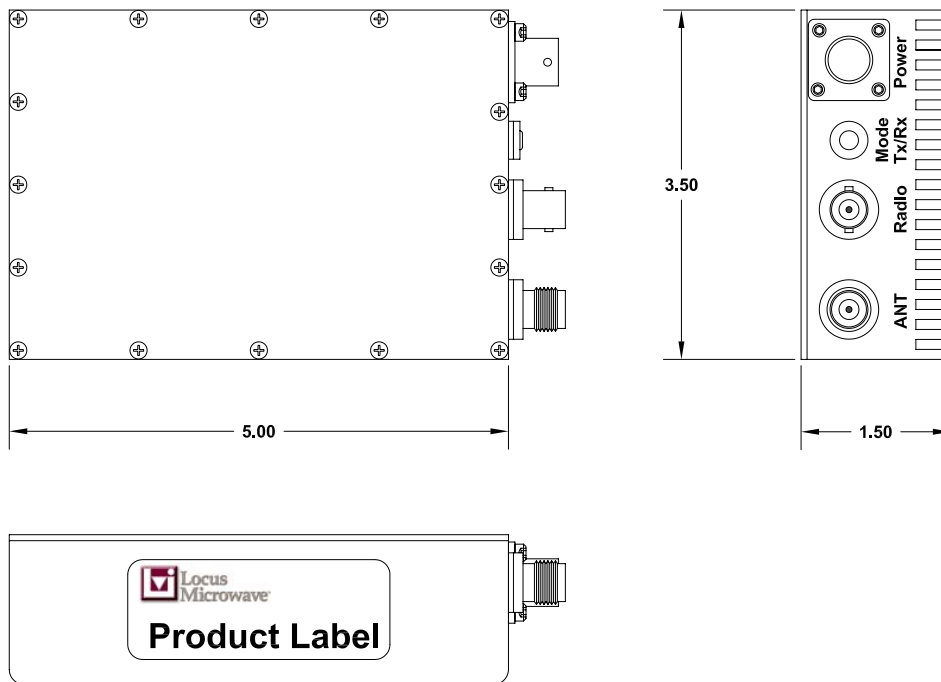
General Information

The Locus Microwave, Inc. S11100-043, 30-512 MHz Booster Amplifier, is a Class AB unit providing superior performance, reliability and cost effectiveness in a slim and compact package.

All unit is carefully designed with consideration for the electrical, mechanical and thermal requirements.

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

Outline Drawing



Features:

- Efficient module packaging
- >44 dBm (25 w) typ. output
- Operates from BA-5590 battery
- Auto switch from Rx to Tx with 1 watt nominal RF input power
- Fully sealed to weather and dust
- Over Temperature Protection

Options:

- Power Cable for connection to BA-5590 battery
- Various RF and power connector options



	Range	Units	Notes
Electrical Specifications			
Frequency	30-512	MHz	full band coverage
RF Input Power	7 max.	watts	
RF Input Sense	1 nominal	watt	auto switch from Rx/Standby mode to Transmit mode
Gain			
Tx Mode with 5 watt (37 dBm) input	6 min., 7 typ.	dB	
Rx/Standby Mode	-1.0 typ., -1.5 max.	dB	
Gain Flatness			
Full Band	+/-1.0 max.	dB	
P _{1dB}	+43 min., 44.0 typ.	dBm	
	20 min., 28 typ.	watts	
Transmit Duty Cycle	33%/20 sec. 'Tx' 40 sec. 'Rx' max. recommended		Unit is over temperature protected from excessive duty cycle
VSWR			
Input	1.50 max.	:1	
Output VSWR Tolerance	4 max.	:1	
Power Requirement			
Input Voltage	+18 to +36	vdc	
Current @ 24 Vdc, 20 watts RF output	2.5 typ.	A	
Current @ 24 Vdc with no RF input	50 nom.	mA	
LED Indicator	Green=Tx mode Yellow=Rx/Standby mode		
Mechanical Specifications			
Outline, excl. connectors (see outline)	5.5 x 3.5 x 1.50	in.	L X W X H
Weight (approximate)	22 nom.	oz.	
Finish	Black Anodize		
Connectors			
Antenna	TNC	Female	BNC available
Radio	BNC	Female	TNC available
Power	MS3112E8-4P		mating cables optional
Environmental			
Operating Temperature	-40 to +60	°C	
Humidity, moisture	100	%	with condensation
Dust, etc.	'O' ring Sealed Construction		

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

176 Technology Dr., Suite 200, Boalsburg, PA 16827 USA • Tel: +1 814 466 6275 • Fax: +1 814 466 1104

www.locusmicrowave.com

Rev-