

## S61000-045 30 Watt X-Band Solid State Power Amplifier (SSPA)

### General Information

Locus Microwave, Inc. X-Band Solid State Power Amplifier modules provide a combination of superior performance, reliability and cost effectiveness in a compact package. All units are carefully designed with consideration for the electrical, mechanical and thermal requirements.

Please contact the factory for custom/specific performance needs.

### Features:

- Efficient module packaging
- 45 dBm output
- Temperature Compensation of Gain
- Output Isolator
- Regulator & Bias Sequencing

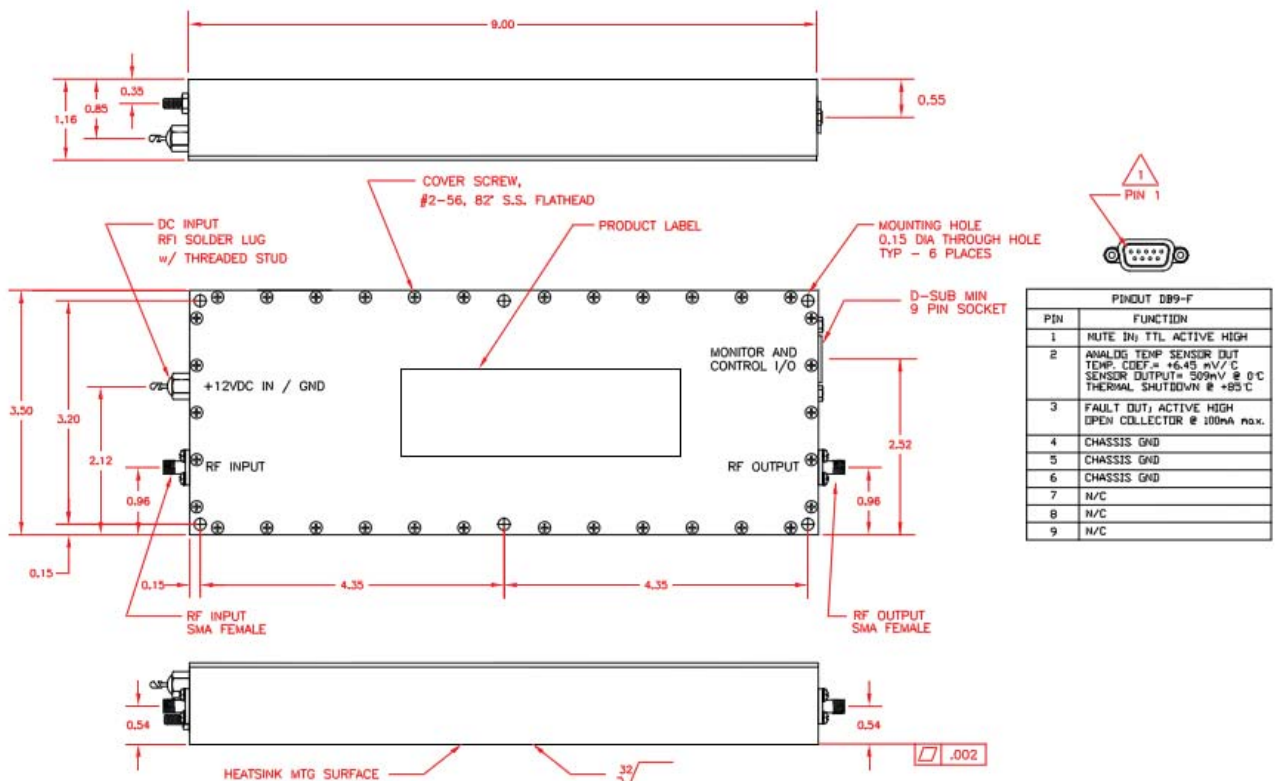
### Options:

- Power Mute
- Analog Temperature Sense
- Fault Alarm

### Outline Drawing

**NOTES:**

- 1 D-CONNECTOR INCLUDED ONLY WHEN 1 OR MORE MONITOR & CONTROL OPTIONS ARE PROVIDED



This item is subject to International Traffic in Arms Regulations (ITAR) and is classified as 22 CFR, Part 121, Category XI (a) (5) per United States Munitions List (USML). Compliance with the Department of State ITAR is required for export of this item.

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	Range	Units	Notes
<b>Electrical Specifications</b>			
Frequency	7.900-8.400	GHz	
Gain <sup>1</sup>	48 min., 52 typ.	dB	
Gain Flatness			
Full Band	+/-1.0 max.	dB	
Per 40 MHz Segment	+/-0.2	dB	
Gain Stability vs. temperature	+/- 2.0 typ.	dB	
P <sub>1dB</sub>	+44 min., 45 typ.	dBm	
P <sub>sat</sub>	+45.5 typ.	dBm	
Third Order Intermodulation Distortion	-25 max	dBc	@ 3 dB backoff relative to rated P <sub>1dB</sub>
Input VSWR	1.30 max.	:1	
Output VSWR	1.25 max.	:1	
M&C Function	Mute, Temp. Monitor, Fault		option
Power Requirement			
Input Voltage	+11 to +13	vdc	Includes sequencing
Current	16.5 nom.	A	@ P <sub>1dB</sub>
<b>Mechanical Specifications</b>			
Outline	3.5 x 9.0 x 1.16 (88.9 x 228.6 x 29.5)	inches (mm)	L X W X H
Weight	2.4 (1.08) nom.	lbs. (kg)	
Connectors			
RF Input	SMA	Female	
RF Output	SMA	Female	
Power	Solder Lug RFI Filter		
Monitor & Control	D-Subminiature	Socket	option
<b>Environmental</b>			
Operating Temperature	-40 to +60	°C	
Humidity	100	%	without condensation

Notes:

1. Other output powers and gains available.