

## S61002B-045 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/specif c performance needs.

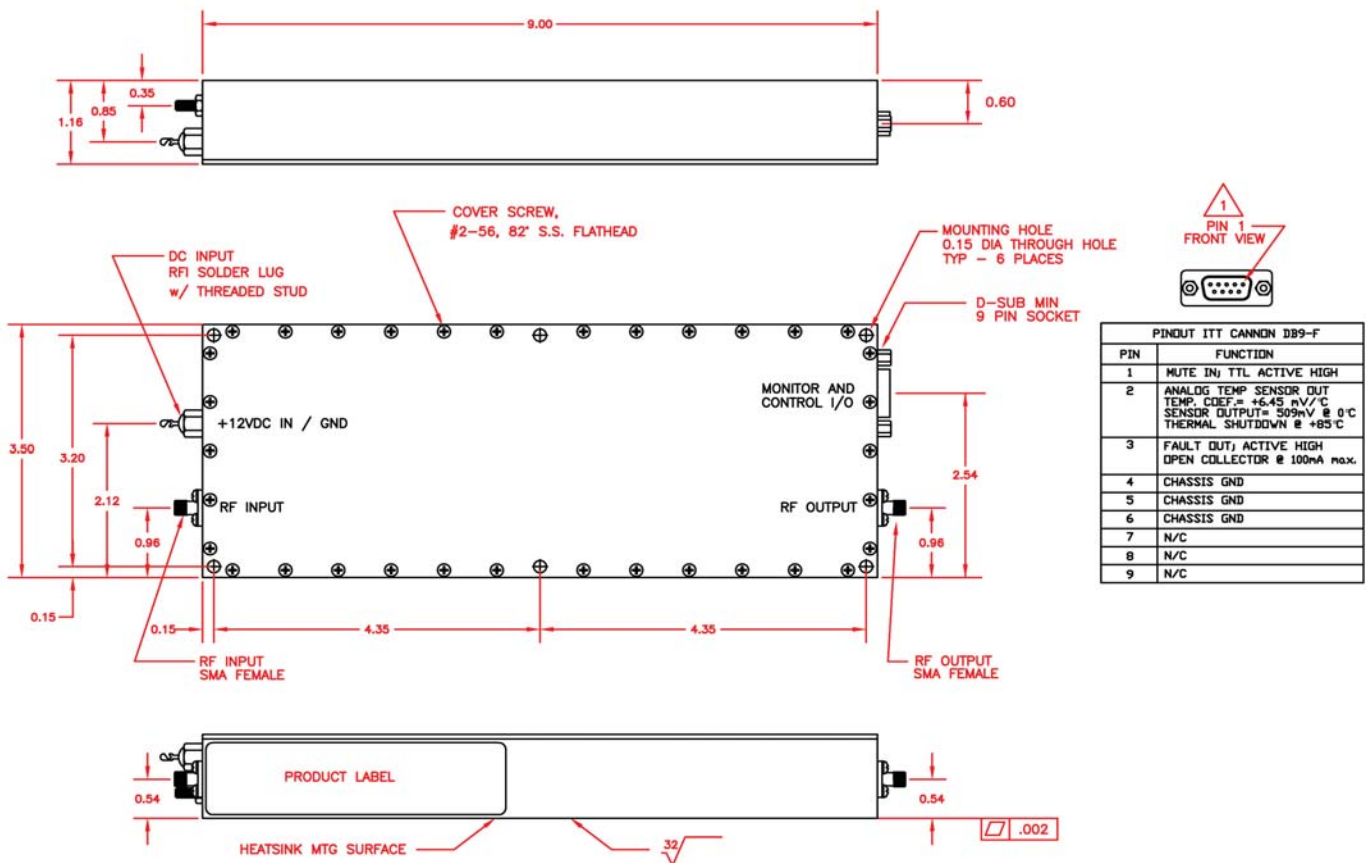
### Features:

- 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



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	48 min., 50 typ.	dB	
Gain Flatness			
Full Band	+/-1.0 max.	dB	
Per 40 MHz Segment	+/-0.2 max.	dB	
Gain Stability vs. temperature	+/- 2.0	dB	
P <sub>1dB</sub>	+44.0 min./45.0 typ.	dBm	
P <sub>sat</sub>	45 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	isolators included
Output VSWR	1.25 max.	:1	
M&C Function	Mute, Temp. Monitor, Fault		see outline for detail
Power Requirement			
Input Voltage	+11 to +13	vdc	Incudes sequencing
Power	16.5 nom.	A	
<b>Mechanical Specifications</b>			
Outline	per outline dwg #10375		
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	
<b>Environmental</b>			
Operating Temperature	-40 to +60	°C	
Humidity	100	%	without condensation