

X Band SSPA Modules

General Information

Locus Microwave, Inc. X Band Solid State Power Amplifier modules provide a combination of superior performance, reliability and cost effectiveness in a slim and compact package.

All units are 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.

Features:

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

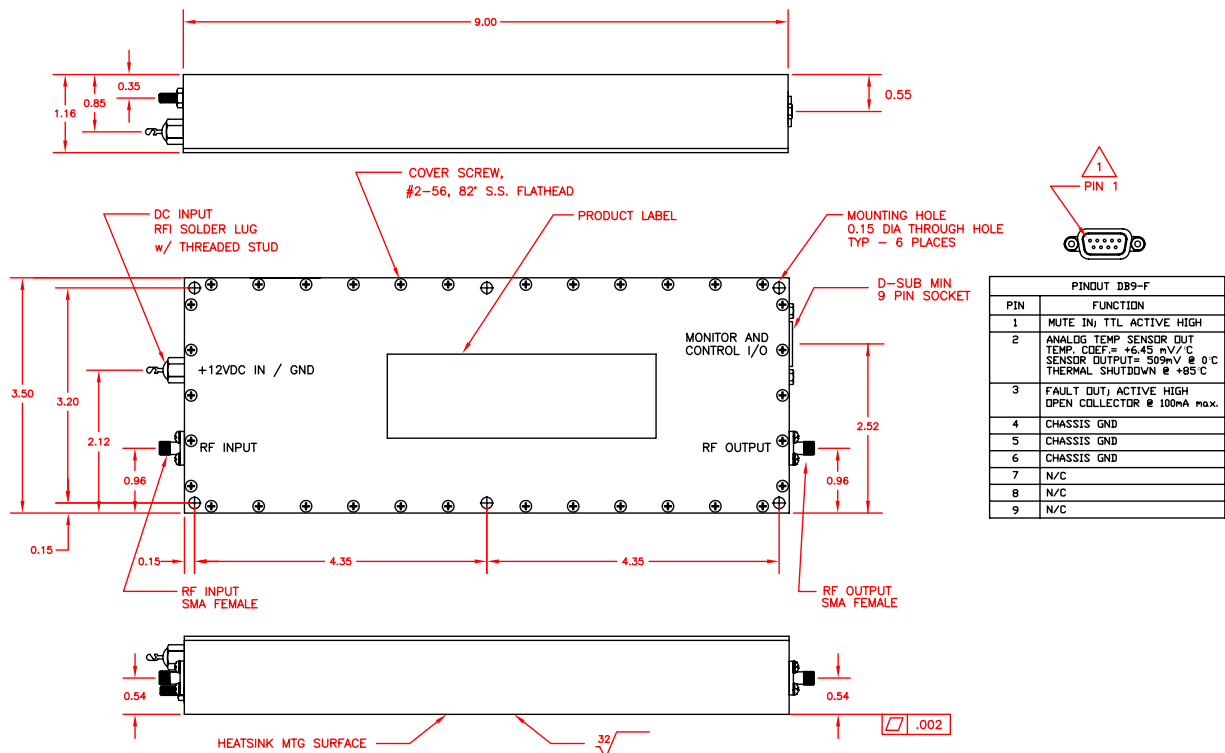
Options:

- Power Mute
- Analog Temperature Sense
- Fault Alarm

Outline Drawing

NOTES:

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





S61000-045 30 w X Band SSPA

	Range	Units	Notes
Electrical Specifications			
Frequency	7.900-8.400	GHz	
Gain ¹	48 min., 52 typ.	dB	
Gain Flatness			
Full Band	+/-1.0 max.	dB	
Per 40 MHz Segment	+/-0.20	dB	
Gain Stability vs. temperature	+/-2.0 typ.	dB	
P _{1dB} ¹			
-045	+44 min., 45.0 typ.	dBm	
P _{sat} ¹			
-045	+45.5 typ.	dBm	
Third Order Intermodulation Distortion	-25 max.	dBc	@3 dB backoff relative to rated P _{1dB}
VSWR			
Input/Output (isolators included)	1.30/1.25 max.	:1	
Power Requirement			
Input Voltage (includes sequencing)	+11 to +13	vdc	
Current			
-045	16.5 nom.	A	@ P _{1dB}
M&C Function	Mute, Temp. Monitor, Fault		Option
Mechanical Specifications			
Outline	3.5 x 9.0 x 1.16 (88.9 x 228.6 x 29.5)	in. (mm)	L X W X H
Weight (approximate)	2.4 (1.08)	lbs. (kg)	
Connectors			
RF Input	SMA	Female	
RF Output	SMA	Female	
Power	Solder Lug RFI Filter		
Monitor & Control	D-Subminiature	Socket	Option
Environmental			
Operating Baseplate Temperature	-40 to +60	°C	
Humidity	100	%	without condensation

Notes:

1. Other output powers and gains available.

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

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