

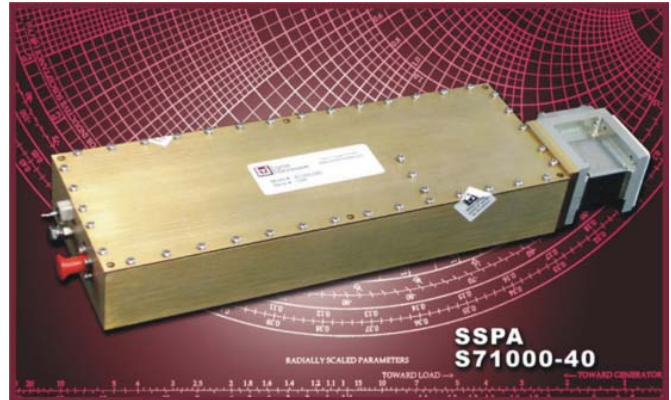
Low Power Ku Band SSPA Module

General Information

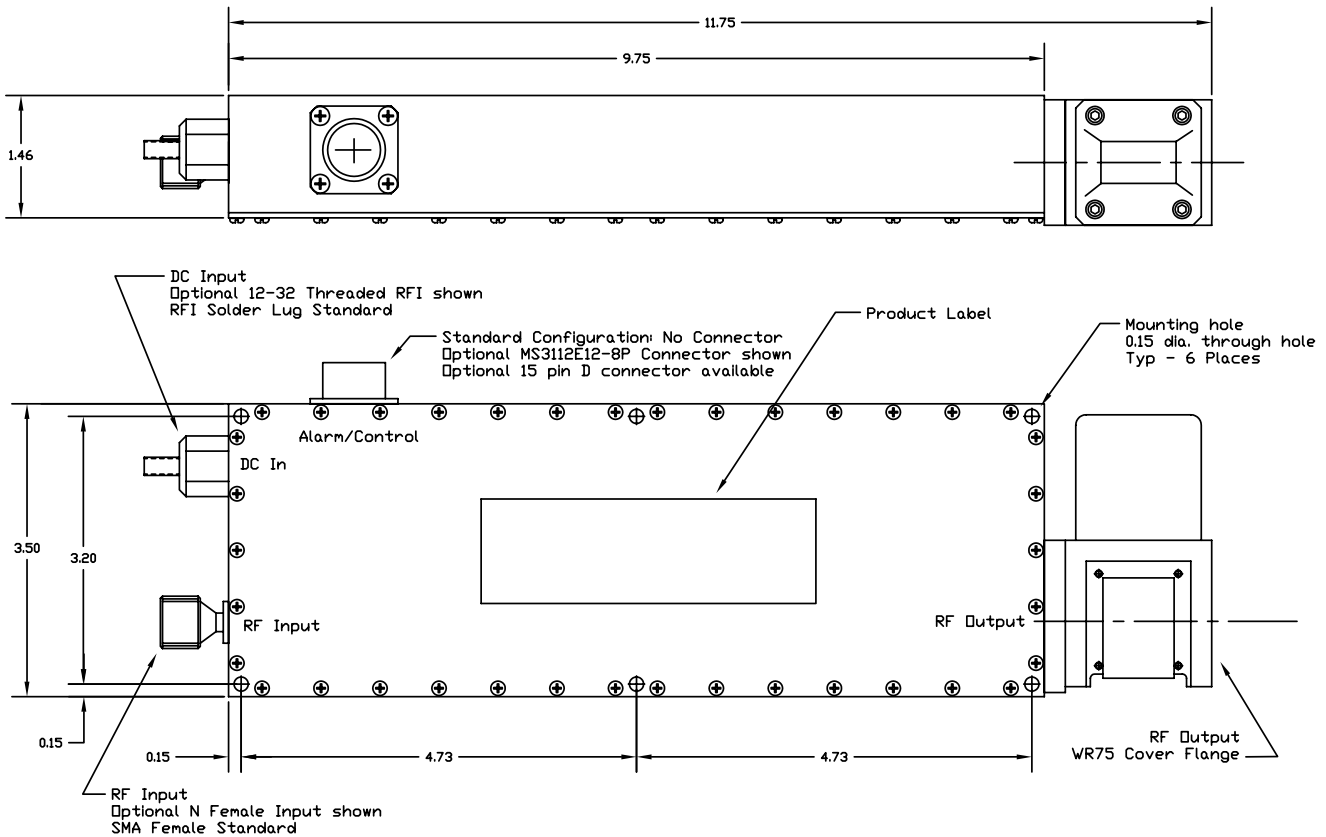
Locus Microwave, Inc. S71000 Ku Band Solid State Power Amplifier modules provide a combination of superior performance, reliability and cost effectiveness in a slim and compact package.

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.



Outline Drawing





S71000-040

10 w Ku Band SSPA

	Range	Units	Notes
Electrical Specifications			
Frequency ¹	14.00-14.50 or 13.75-14.50	GHz	
Gain	50 min.	dB	
Gain Flatness			
Full Band	+/-1.5max.	dB	
Per 40 MHz Segment	+/-0.20	dB	
Gain Stability vs. temperature	+/-2.0	dB	
P _{1dB} ^{1,2}			
-040	+39 min., 39.8 typ.	dBm	
P _{sat} ^{1,2}			
-040	+40.4 typ.	dBm	
Third Order Intermodulation Distortion	-25 max.	dBc	@3 dB backoff relative to rated P _{1dB}
VSWR			
Input/Output	1.30/1.25 max.	:1	
Power Requirement			
Input Voltage	+11 to +13	vdc	
Current			
-040	8.0 nom.	A	
Mechanical Specifications			
Outline	3.5 x 11.75 x 1.5 (88.9 x 298.5 x 38.1)	in. (mm)	L X W X H
Weight (approximate)	3.8 (1.75)	lbs. (kg)	
Connectors			
RF Input	SMA	Female	N Female optional
RF Output	WR75 Cover Flange		
Power	Solder Lug RFI Filter		Threaded RFI Optional
Fault/Control	MS3112E12-8P or 15 Pin D		Optional
Environmental			
Operating Baseplate Temperature	-40 to +50	°C	
Humidity	100	%	without condensation

Notes:

- Specify at time of order.
- Derate by 0.5 dB with the 13.75-14.50 GHz Band Option.

Options:

- Option 1: Type N Female Input connector
- Option 2: Threaded DC input RFI
- Option 3: Control I/O (mute, fault alarm, temperature indication)
- Option 4: Detected RF Output (+4 V nom. @ P1dB)
- Option 5: RF Sample Port (-40 dBc nom.)
- Option 6: Gain Adjust (20 dB range, continuous)

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

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