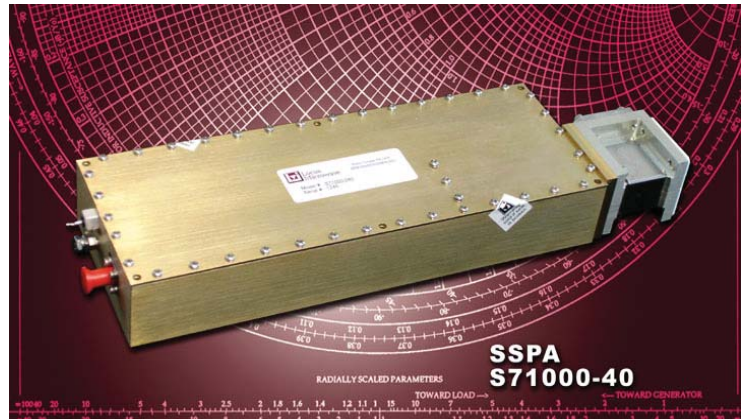


Medium Power Ku-Band Solid State Power Amplifier (SSPA)

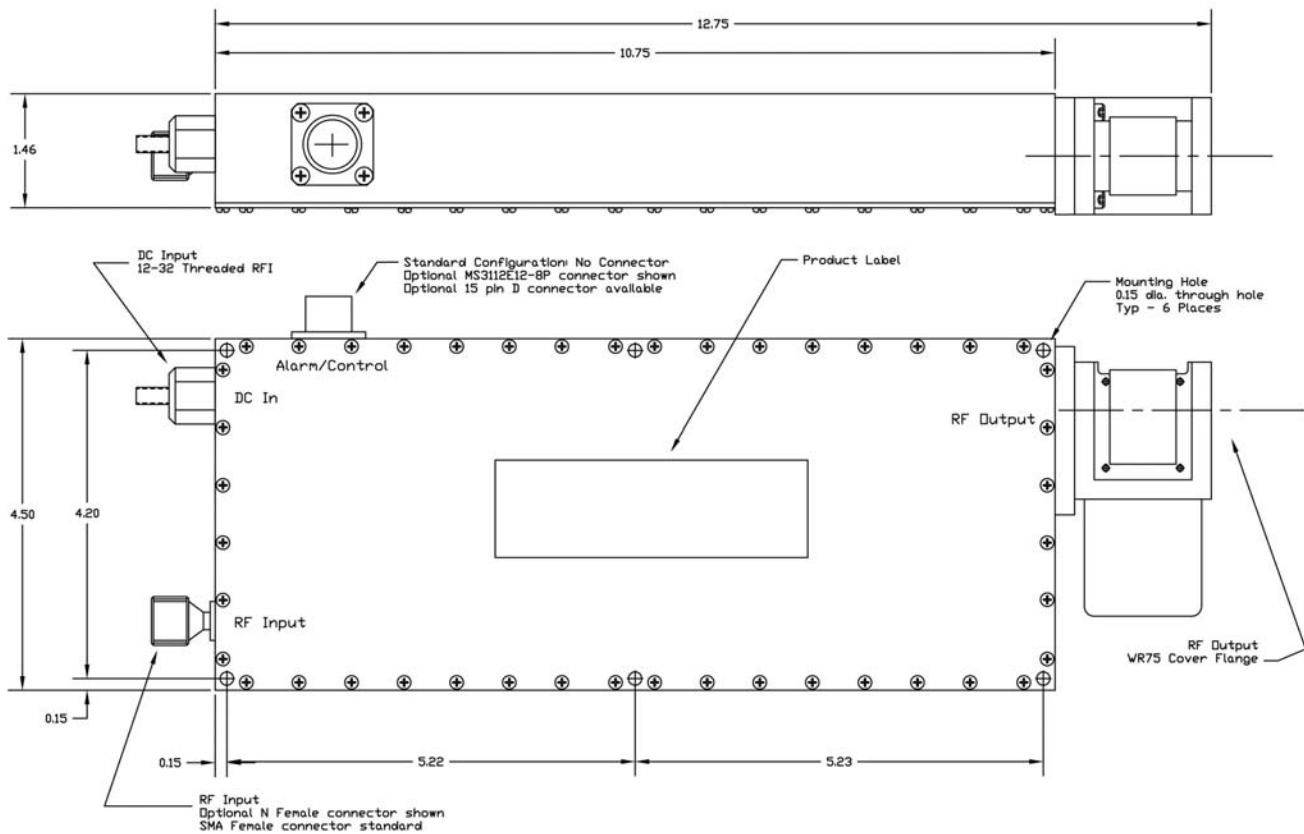
General Information

Locus Microwave, Inc. Ku-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.



Outline Drawing



	Range	Units	Notes
Electrical Specifications			
Frequency ¹	14.00-14.50 or 13.75-14.50	GHz	
Gain	54 min.	dB	
Gain Flatness			
Full Band	+/-1.5 max.	dB	
Per 40 MHz Segment	+/-0.2	dB	
Gain Stability vs. Temperature	+/- 2.0 typ.	dB	
$P_{1dB}^{1,2}$			
-045	+44 min., 44.6 typ.	dBm	
-046	+44 min., 44.6 typ.	dBm	
-047	+44 min., 44.6 typ.	dBm	
$P_{sat}^{1,2}$ -045/-046/-047	+45 typ./+46 typ./+47 typ.	dBm	
Third Order Intermodulation Distortion	-25 max	dBc	@ 3 dB backoff relative to rated P_{1dB}
Input VSWR	1.30 max.	:1	
Output VSWR	1.25 max.	:1	
Power Requirement			
Input Voltage	+11 to +13	vdc	
Current -045/-046/-047	17 nom./28 nom./36 nom.	A	
Mechanical Specifications			
Outline	4.5 x 12.75 x 1.5 (114.3 x 323.8 x 38.1)	inches (mm)	L X W X H
Weight	5.5 (2.5) nom.	lbs. (kg)	
Connectors			
RF Input	SMA	Female	N option
RF Output	WR75 Cover Flange		
Power	Threaded RFI Filter		
Fault/Control	MS3112E12-8P or 15 Pin D		option
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.

- Option 1: Type N Female Input connector
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)