



S71000 Series 100 w Ku Band SSPA

	Range	Units	Notes
Electrical Specifications			
Frequency ¹	14.00-14.50 or 13.75-14.50	GHz	
Gain	57 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}			
-050	+49 min., 49.4 typ.	dBm	
P _{sat} ^{1,2}			
-050	+50 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			
-050	77 nom.	A	
Mechanical Specifications			
Outline	5.0 x 13.75 x 1.5 (127 x 349.3 x 38.1)	in. (mm)	L X W X H
Weight (approximate)	7.0 (3.2)	lbs. (kg)	
Connectors			
RF Input	SMA	Female	N Female optional
RF Output	WR75 Cover Flange		
Power	Threaded RFI Filter		
Fault/Control	MS3112E12-8P or 15 Pin D		Optional
Environmental			
Operating Baseplate Temperature	-40 to +60	°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: N/A
- 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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