



# S51001 Series 30/40/50 w C Band SSPAs

	Range	Units	Notes
<b>Electrical Specifications</b>			
Frequency <sup>1</sup>	5.850-6.425	GHz	
Gain	50 min.	dB	
Gain Flatness			
Full Band	+/-1.0 max.	dB	
Per 40 MHz Segment	+/-0.20	dB	
Gain Stability vs. temperature	+/-2.0	dB	
P <sub>1dB</sub> <sup>1,2</sup>			
-045	+44 min., 44.5 typ.	dBm	
-046	+45 min., 45.5 typ.	dBm	
-047	+46 min., +46.5 typ.	dBm	
P <sub>sat</sub> <sup>1,2</sup>			
-045	+45 typ.	dBm	
-046	+46 typ.	dBm	
-047	+47 typ.	dBm	
Third Order Intermodulation Distortion	-25 max.	dBc	@3 dB backoff relative to rated P <sub>1dB</sub>
VSWR			
Input/Output	1.30/1.25 max.	:1	
Power Requirement			
Input Voltage	+11 to +13	vdc	
Current			
-045	14.7 nom.	A	
-046	17.5 nom.	A	
-047	18.8 nom.	A	
<b>Mechanical Specifications</b>			
Outline	3.5 x 9.0 x 1.0 (88.9 x 228.6 x 25.4)	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		
<b>Environmental</b>			
Operating Baseplate Temperature	-40 to +60	°C	
Humidity	100	%	without condensation

**Notes:**

- Extended band (5.85-6.725 GHz, S51401 series) available.
- Linearly derate by 1.0 dB from 6.425 to 6.725 GHz with extended band option.

**Options:**

- Option 1: Type N Female Input/Output connectors

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

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