

**High Performance C-Band Low Noise Amplifiers**

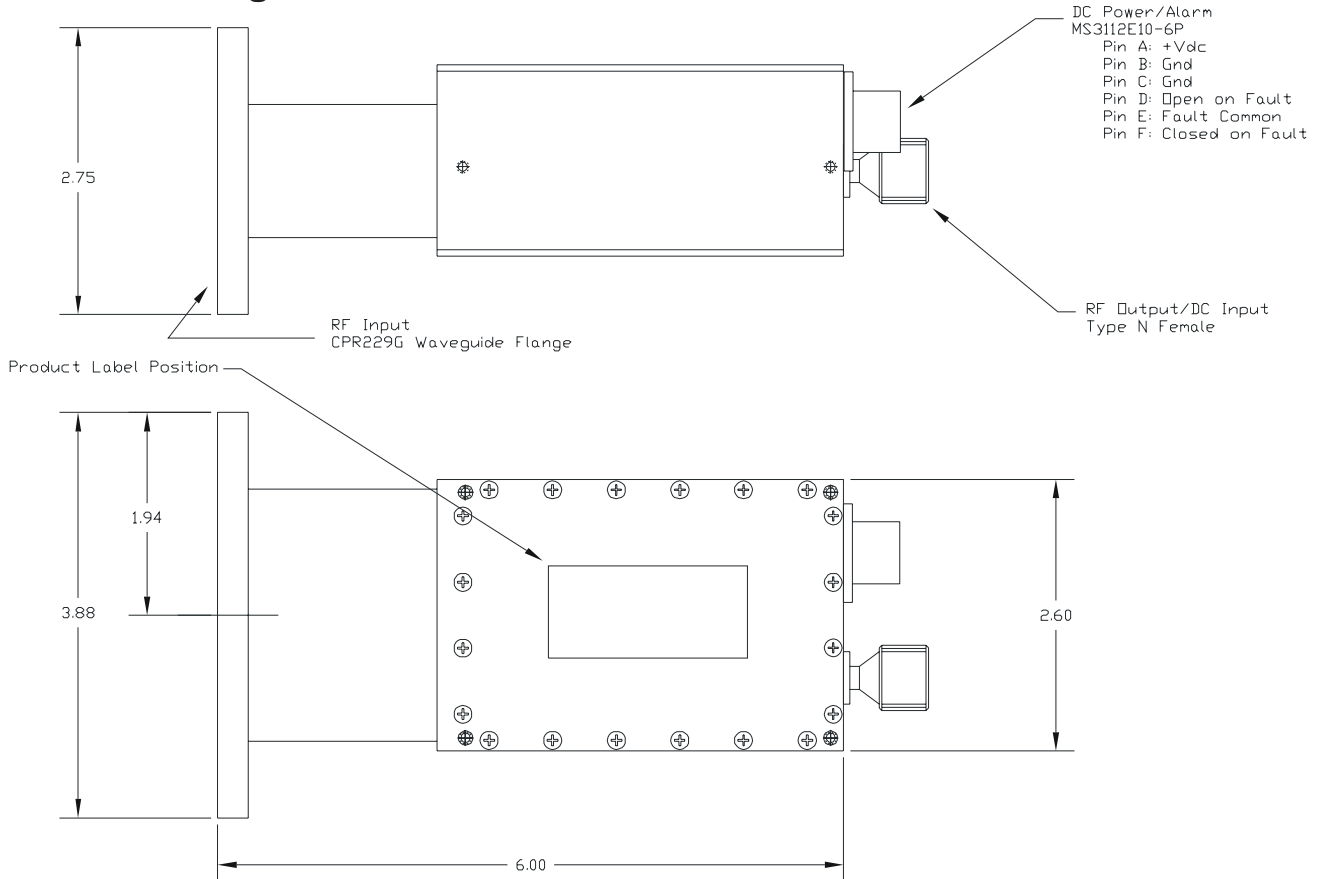
**General Information**

Intended for either indoor or outdoor environments, Locus Microwave, Inc.'s L51000 C Band Low Noise Amplifiers provide a combination of superior performance, reliability and cost effectiveness.

Specifications included are for a standard product. Please contact the factory for your custom/specific performance needs.



**Outline Drawing**



	Range	Units	Notes
<b>Electrical Specifications</b>			
Frequency	3.6 - 4.2 or 3.4 - 4.2	GHz	
Noise Temperature <sup>1</sup> (choices)			
3.6 - 4.2 GHz	35, 30 or 28 max.	K	@+23°C
3.4 - 4.2 GHz	35 or 30 max.	K	@+23°C
Gain	50 min.	dB	60 dB optional
Gain Flatness	+/-0.5 max. <sup>3</sup>	dB	per full band
Gain Slope	+/-0.2 max.	dB	per 40 MHz
P <sub>1dB</sub>	+10 min. (+20 dBm optional)	dBm	
OIP <sub>3</sub>	+20 min. (+30 dBm optional)	dBm	
VSWR			
Input	1.20 typ., 1.25 max.	:1	
Output	1.25 typ., 1.50 max.	:1	
Overdrive	0 max.	dBm	non-damaging
	-10 max.	dBm	desense level (5.825-6.425 GHz)
AM/PM Conversion	0.05 max.	%dB	@-5 dBm output
Group Delay			
Linear	0.01 max.	ns/MHz	per 40 MHz
Parabolic	0.001 max.	ns/MHz <sup>2</sup>	per 40 MHz
Ripple	0.1 max.	ns p-p	per 40 MHz
Power Requirement			
Input Voltage	+12 to +24	vdc	
Current <sup>4</sup>	230 nom.	mA	consult factory for other options
Fault Alarm	contact closure	Form 'C'	current sensing
<b>Mechanical Specifications</b>			
Outline	see outline		
Weight	1.2 nom.	lbs.	
Finish	paint	white <sup>5</sup>	epoxy enamel
Connectors			
RF Input	CPR 229G Flange		
RF Output	Type N	Female	
Power	6 pin	MS-type	plug
<b>Environmental</b>			
Operating Temperature	-40 to +70	°C	
Humidity	100	%	with condensation

**Notes:**

1. Specify Noise Temperature at time of order.  
2. Consult factory for other requirements.

3. +/- 1.0 dB for 3.4-4.2 GHz coverage  
4. Dependent on Gain and output Power.

5. Also available in green or tan

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

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CODAN SATCOM



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