

High Performance Ku-Band Low Noise Amplifiers

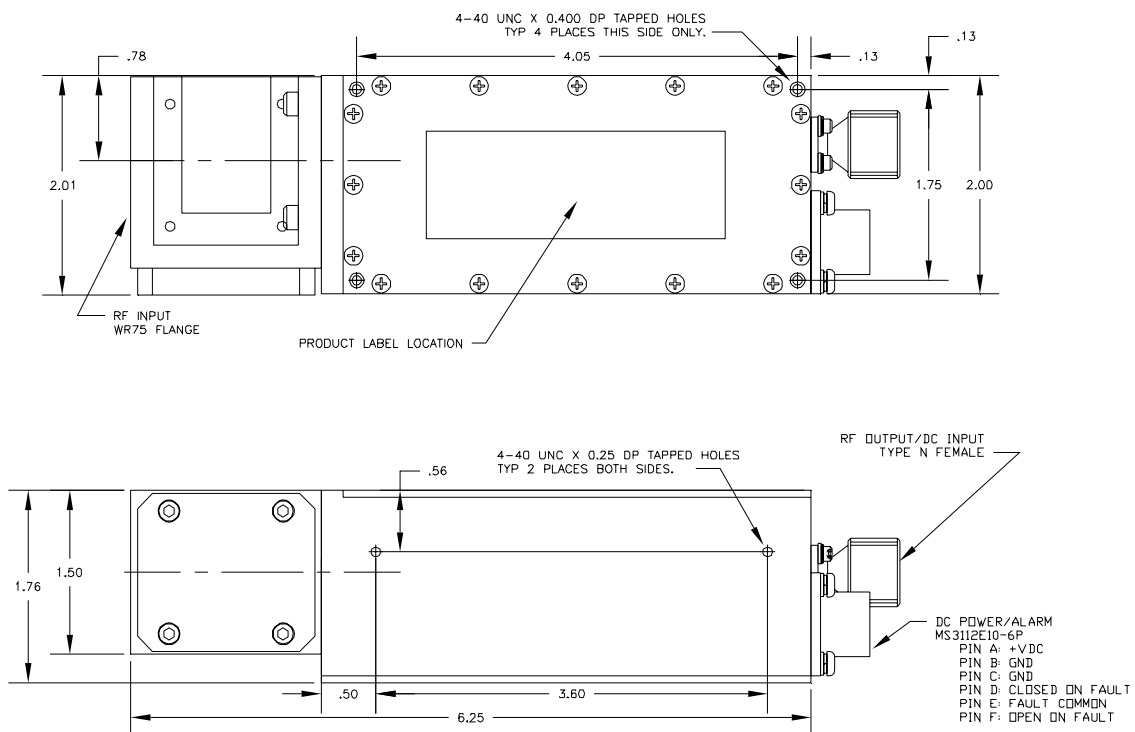
General Information

Intended for either indoor or outdoor environments, Locus Microwave, Inc.'s L71000 Ku 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
Electrical Specifications			
Frequency	10.95-12.75 or 10.70-12.75	GHz	
Noise Temperature ¹ (choices)			
10.95-12.75 GHz	65 or 60 max.	K	@T _{case} = +23°C
10.70-12.75 GHz	65 or 60 max.	K	@T _{case} = +23°C
Gain	50 min.	dB	60 dB min. optional
Gain Flatness	+/-1.5 max.	dB	per full band
Gain Slope	+/-0.2 max.	dB	per 40 MHz
P _{1dB}	+10 min. (+20 dBm optional)	dBm	
OIP ₃	+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
	-30 max.	dBm	desense level (14.0-14.5 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 ²	per 40 MHz
Ripple	0.1 max.	ns p-p	per 40 MHz
Power Requirement			
Input Voltage	+12 to +24	vdc	
Current ²	220 nom.	mA	
Fault Alarm			
Mechanical Specifications			
Outline	see outline		
Weight	1.1 nom.	lbs.	
Finish	paint	white	epoxy enamel; green or tan available
Connectors			
RF Input	WR75 Cover Flange		
RF Output	SMA	Female	Type N Optional
Power	6 pin	MS-type	plug
Environmental			
Operating Temperature	-40 to +70	°C	
Humidity	100	%	with condensation

Notes:

- Specify Noise Temperature and P_{1dB} at time of order.
- Dependent on Gain and output Power.

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

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