



High Performance Ku-Band Low Noise Amplifiers

General Information

Intended for either indoor or outdoor environments, the Locus Microwave L71 Ku-Band Low Noise Amplifier (LNA) provides a combination of superior performance, reliability and cost effectiveness.

Features

- Outdoor packaging
- Integral Fault Alarm

Reference Documents

- LMI Drawing 10132 (VDC)
- LMI Drawing 10436 (VAC)



L71 Series Low Noise Amplifiers

CODAN SATCOM

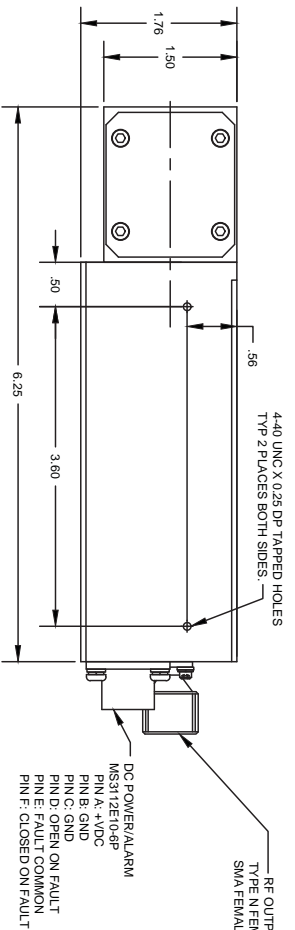
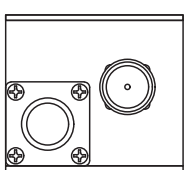
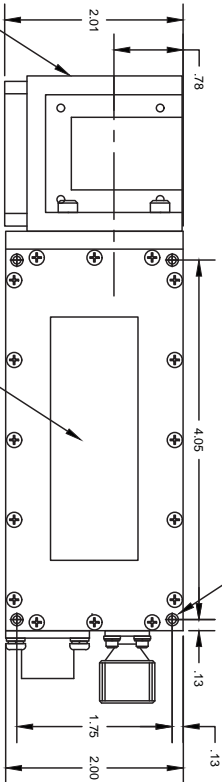
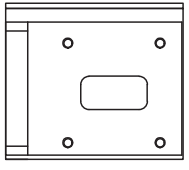
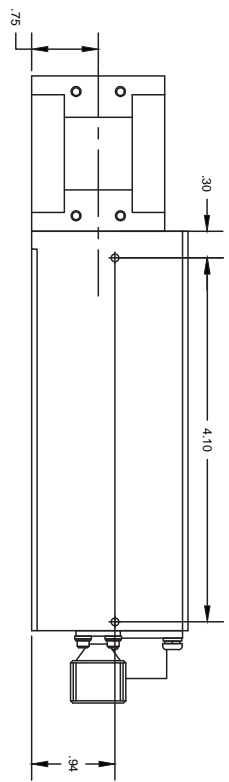


	Range	Units	Notes
Electrical Specifications			
Frequency	10.95-12.75 or 10.70-12.75	GHz	
Noise Temperature	60 or 65 max.	K	+23°C
Gain	50 or 60 min.	dB	
Gain Flatness	+/-1.5 max.	dB	per full band
Gain Slope	+/-0.2 max.	dB	per 40 MHz
P _{1dB}	+10 or 20 min.	dBm	
VSWR			
Input	1.20 typ., 1.25 max.	:1	
Output	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	110/220 VAC available
Current	350 nom.	mA	
Fault Alarm	contact closure	Form 'C'	current sensing
Mechanical Specifications			
Outline	LMI Dwg #10132	inches	
Weight	1.1 nom.	lbs.	
Finish	paint	white	
Connectors			
RF Input	Cover	Flange	WR75 waveguide
RF Output	N or SMA	Female	
Power	6 pin	MS-type	mate included
Pressure Test	5	psi	
Environmental			
Operating Temperature	-40 to +70	°C	
Humidity	100	%	with condensation

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

06/11

REVISION HISTORY			ZONE	REV	CHANGE NO	DESCRIPTION	DWN BY	APPR BY	DATE
			---	-		ENGINEERING RELEASE	JPD	JPD	05/05/08
			A	558		CHANGE ISOLATOR	JPD	JPD	09/05/27
			B	904		ADD VIEWS, CHANGE FLANGE CALLOUT	SES	SES	11/02/24



Outline Drawing

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		LOCUS MICROWAVE INC.	
FRACTIONS ±.001	DECIMALS XX ± .01	OUTLINE, KU-BAND LNA	
ANGLES ±.03	ANGLES XX ± .05	SIZE C 34TH3	CONTOUR 10132
TYPED ANGLE PROJECTION		SCALE 1:1	PROJ: B
			PAGE 1 OF 1

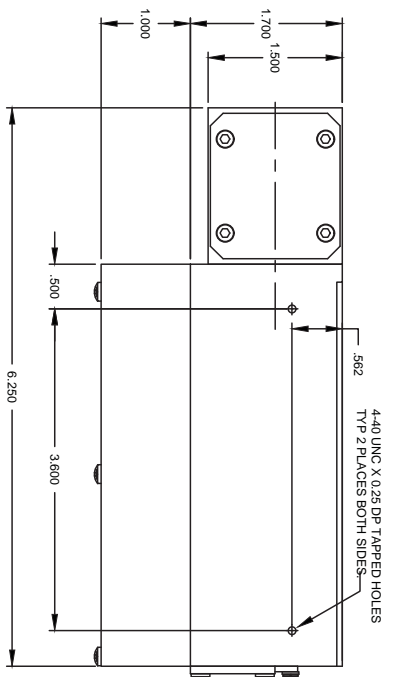
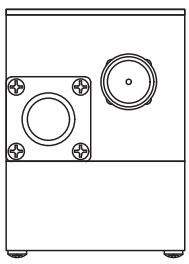
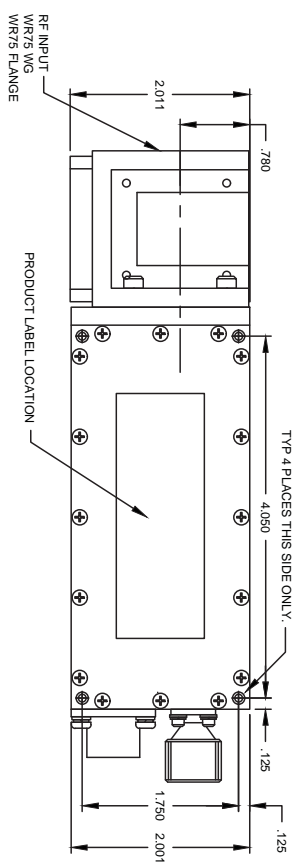
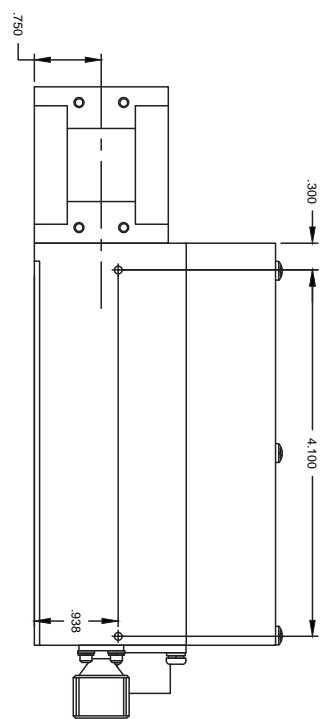
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REVISION HISTORY				DWN BY	APPR BY	DATE
ZONE	REV	CHANGE NO	DESCRIPTION	SES	TDG	11/01/13
---	-	---	INITIAL RELEASE	SES		
A	904		ADD VIEWS, CHANGE FLANGE CALLOUT	SES		11/02/24



Outline Drawing

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.		LOCUS MICROWAVE INC.	
TOLERANCES		OUTLINE: KU-BAND LNA, VAC POWER SUPPLY	
FRACTIONS	DECIMALS	SIZE	CODE IDENT
XX ± .01	XX ± .01	C	34TH3
ANGLES 30°-90°	XX ± .005	SCALE	1:1
THIRD ANGLE PROJECTION		PROJ:	1
		PAGE	1 OF 1

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Model Number Configuration

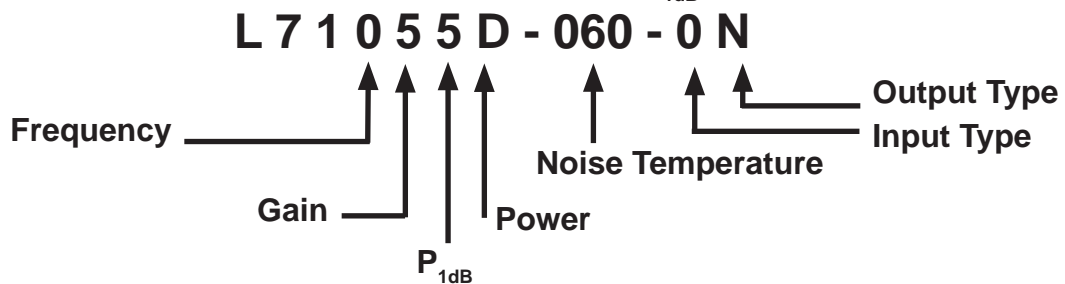
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1 Frequency	2 Gain	3 P 1dB	4 Power	5 Noise Temperature
0 = 10.95-12.75 GHz	5 = 50 dB	1 = 10 dBm	D = 12-24 VDC	060 K
1 = 10.70-12.75 GHz	6 = 60 dB	5 = 20 dBm	A = 110/220 VAC	065 K

6 Input Type	7 Output Type	A Accessories	B Finish	Federal Standard
0 = WR75 Flange	S = SMA (Female) *1	0 = None	0 = White	37925
	N = N (Female)	1 = 6 Pin Mate	1 = Dark Green	34094
		2 = 6 Pin Pigtail DC ONLY	2 = Desert Tan	33446
		3 = 6 Pin Pigtail AC ONLY	3 = Beige	37722
			4 = Sand	33303
			5 = Forest Green	34083
			6 = Metalast	

*1 NOTE: LNAs ordered as components of a Redundancy system require an SMA (F) output connector.

Example: 10.95-12.75 GHz, 50 dB Gain, +20 dBm P_{1dB}, DC Power, 60K Noise



Note: Selections shaded in gray will require Engineering review.

Please confirm configurations against product specifications, and with factory, prior to order.