

RADITEK

SATCOM

Ku Band LNB / PLL

Ku Band, LNB, 10.95-11.7 GHz, F female Connector, Phase Locked



Order Examples: RLNB-Ku-10.95-11.7-F(f)-PLL-LO-Stab-a8

RF Frequency (GHz)	Local Frequency (GHz)	IF Connector (MHz)	Local Stability (ppm)	IF Connector (type)	Power Supply (VDC)
10.95 to 11.70	10	950 to 1,700	±10	F	+24 (12 to 24)
12.25 to 12.75	11.30	950 to 1,450	±10	F	+24 (12 to 24)

Specifications		Units
Input Interface	Waveguide WR 75 (with groove)	
Output Interface	F type female (75 ohm)	
Noise Figure (Ta: +25° C)	0.8	dB typ.
	1.0	dB max.
Linear Gain (Ta: +25° C)	60	dB typ.
	55	dB min.
Local Stability (Ta: -40° to + 60° C)	±10	ppm
LO Phase Noise	-70	dBc/Hz typ. @ 100 Hz
	-80	dBc/Hz typ. @ 1 kHz
LO Leakage Level (max.)	-25	dBm @ IF Output Connector
	-60	dBm @ RF Input Flange
Spurious (max) at Input, fixed frequency spur, unrelated to test CW signal (Measured at IF band)	-140	dBm
Spurious (max.) with test CW signal -10 dBm IF output (Measured at IF band)	-55	dBc max.
Input V.S.W.R.	2.5:1 typ.	
Output V.S.W.R.	2.3:1 max	
Power Requirement	+ 24 (+12 to +24)	VDC
Current Drain	200	mA max.
Temperature Range (ambient)	-40 to + 60	°C Operating
	-40 to + 80	°C Storage
Dimensions & Housing (LxWxH) (Without Interface Connectors)	100.5 x 40 x 40	mm
	3.96 x 1.57 x 1.57	inches
Weight	260/(0.57)	g/(lbs)

RLNB-Ku-10.95-12.75-F(f)-PLL-L0-Stab-Generic-a8

Specifications may be subject to change

04/14/10

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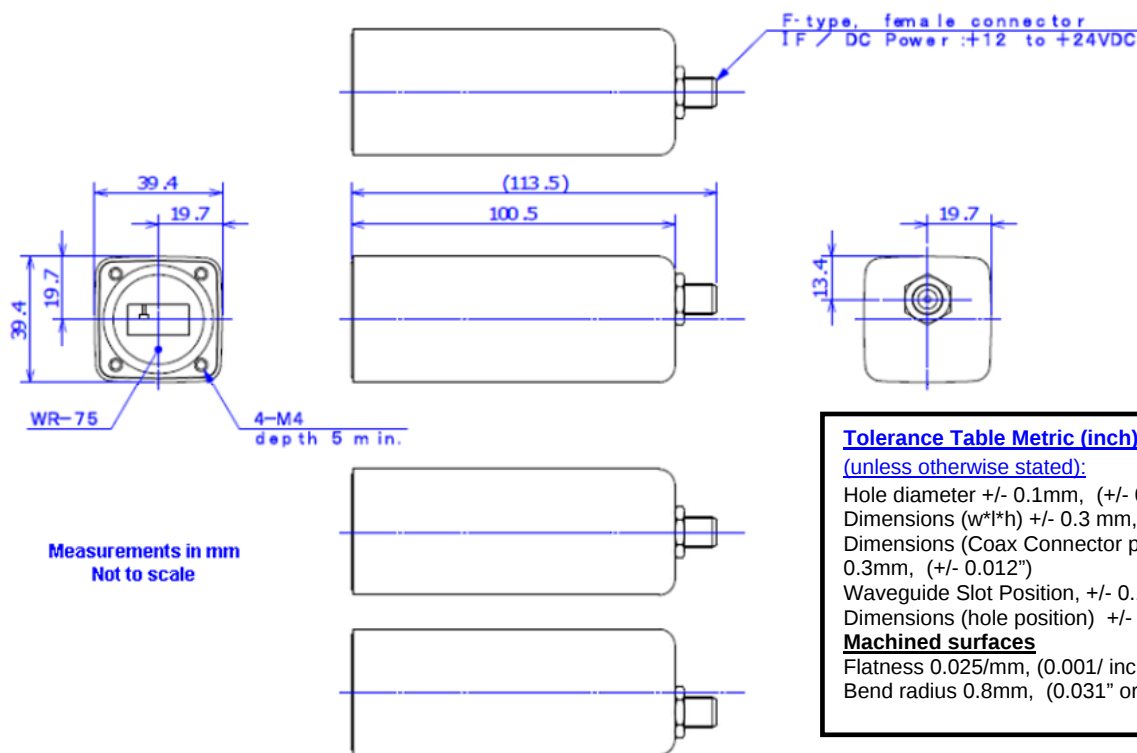
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code-a8



Tolerance Table Metric (inch)

(unless otherwise stated):

Hole diameter $\pm 0.1\text{mm}$, ($\pm 0.004''$)

Dimensions (w*h) $\pm 0.3\text{ mm}$, ($\pm 0.015''$)

Dimensions (Coax Connector position) $\pm 0.3\text{mm}$, ($\pm 0.012''$)

Waveguide Slot Position, $\pm 0.1\text{mm}$, ($\pm 0.04''$)

Dimensions (hole position) $\pm 0.1\text{mm}$, ($\pm 0.04''$)

Machined surfaces

Flatness 0.025mm , (0.001 inch)

Bend radius 0.8mm , ($0.031''$ or $1/32''$)