

RADITEK

SATCOM

C Band LNB / PLL

C-Band LNB / PLL

RLNB-3.625-4.200-F950-1525M-PLL-j6



Features

- Low Noise Temperature – 15K
- Low Dc Current Drain – 350 mA
- Light Weight - 800 g

Order Examples: RLNB-3.625-4.200-F950-1525M-PLL-j6

Description: (LNB, 3.625-4200GHz, 950-1525MHz IF, Female Connectors-Phase Lock)

Specifications:

RF Frequency	Local Frequency	IF Connector	Local Stability	IF Connector	Power Supply
3.400 to 4.200 GHz (Palapa C-band)	5.15 GHz	950 to 1,750 MHz	+/- 1 ppm	F-type	+ 24 VDC (+12 to +24 VDC)
3.625 to 4.200 GHz (Standard C-band)		950 to 1,525 MHz		N-type	
4.500 to 4.800 GHz (Insat C-band)	5.76 GHz	960 to 1,260 MHz		F-type	
				N-type	
F-type					
N-type					
Item		Specifications			
Input Interface		Waveguide, CPR229 (with Groove)			
Output Interface		N-type, female (50 ohm)			
		F-type, female (75 ohm)			
Noise Temperature (Ta.: +25 C)		15 K typ., 30 K max.			
Linear Gain (Ta.: +25 C)		59 dB min., 66 dB max.			
Local Stability		+/-0.5 ppm (Ta.: -30 to +60 C)			
		+/-1.0 ppm (Ta.: -40 to +60 C)			
L.O. Phase Noise		-70 dBc/Hz typ. @ 100 Hz			
		-80 dBc/Hz typ. @ 1 kHz			
		-85 dBc/Hz typ. @ 10 kHz			
		-95 dBc/Hz typ. @ 100 kHz			
Spurious		a) -140 dBm max. at input, Fixed frequency spur, unrelated to test CW signal (Measured at specified IF band).			
		b) -55 dBc max. with test CW signal -10 dBm IF output (Measured at specified IF band).			
Input V.S.W.R.		3.0 : 1 typ.			
Output V.S.W.R.		2.5 : 1 max.			
Power Requirement		+24 VDC (+12 to +24 VDC)			
Current Drain		350 mA max.			
Temperature Range (ambient)		-40 to +60 C (operating), -40 to +80 C (storage)			
Dimension & Housing (without Interface Connectors)		80.8 mm (L) x 99.6 mm (W) x 76 mm (H)			
		[3.18" (L) x 3.92" (W) x 2.99" (H)]			
Weight		800 g [1.76 lbs]			

RLNB-C-Band-PLL-Generic-j6

Specifications may be subject to change

08/28/10

WORLD HQ: 1702L Meridian Ave. Suite 127, San Jose, Ca 95125, U.S.A.

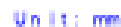
Tel: (408) 266-7404

FAX: (408) 266-4483

WEB: www.raditek.com

E-mail: sales@raditek.com

code-j6

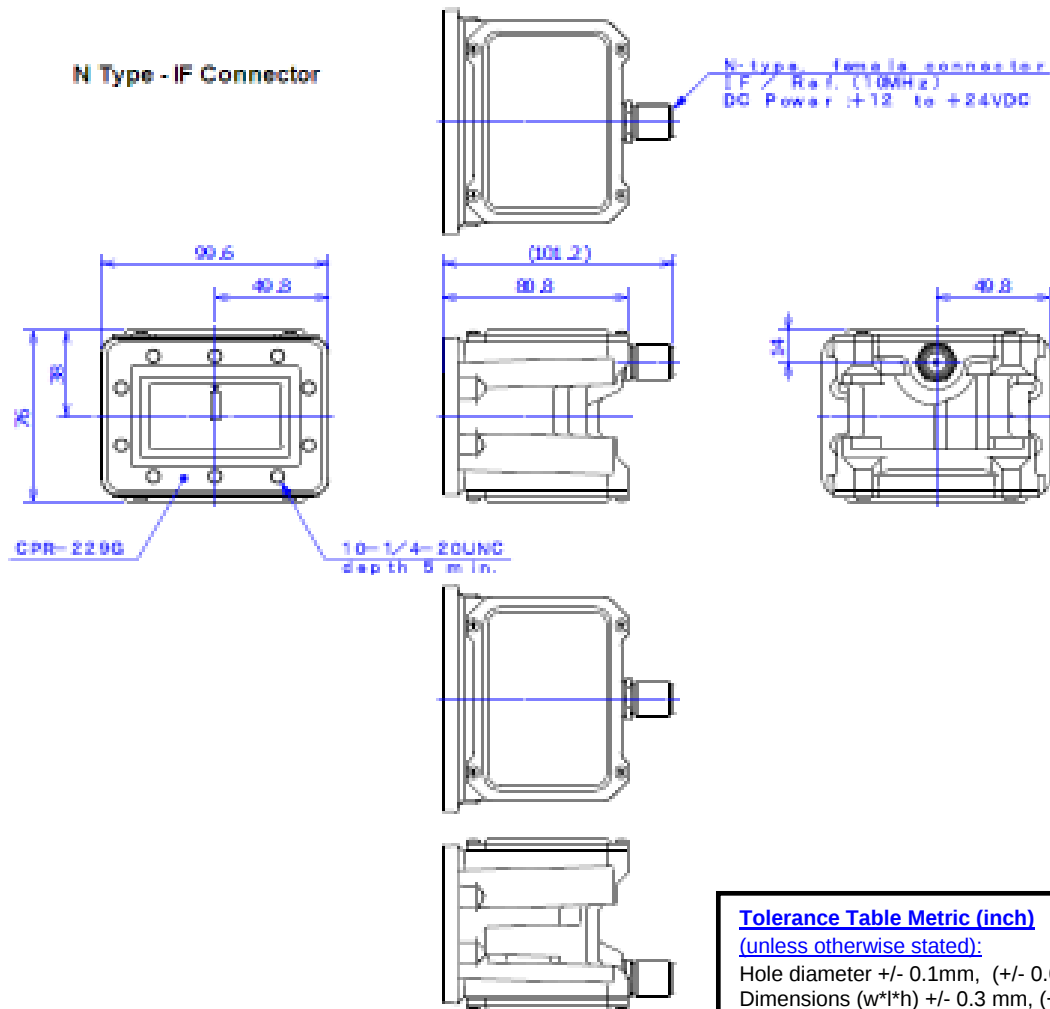


Flatness 0.025/mm, (0.001/ inch)
Bend radius 0.8mm, (0.031" or 1/32")

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N Type - IF Connector



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 $0.025/\text{mm}$, ($0.001/\text{inch}$)
 Bend radius 0.8mm , ($0.031''$ or $1/32''$)