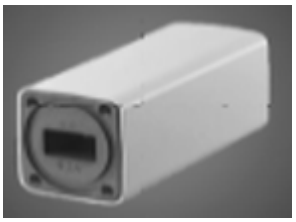
LNB, Ku Band, PLL, Dual Band
10 ppm Internal Reference, N or F Female Connectors

RoHS COMPLIANT



Features

- Dual Band 3 Switching Options:
  - Model 1- Mechanical Switch
  - Model 2- Tone Switch
  - Model 3- Voltage Switch
- Low Noise Figure Noise Figure: 0.8dB
- Low DC Current Drain DC Current Drain: 170mA
- Ideal for TVRO, Small Size & Light Weight
- RoHS Compliant

Order Examples: **RLNB-Ku-L-Nf-PLL-IR10-M3-j6**

Description: *(LNB-Ku to L-Band-N Female Connector, PLL-10ppm Internal Reference (Voltage Band Switching)*

Additional Options: **F(female)** **M1 (Mechanical) -M2 (22KHz Tone) M3 (Voltage)**

Electrical Specification		
Input Frequency Band	[Low band]	10.70 to 11.70 GHz
	[High band]	11.70 to 12.75 GHz
Output Frequency Band	[Low band]	950 to 1,950 MHz
	[High band]	1,100 to 2,150 MHz
Local Frequency	[Low band]	9.75 GHz
	[High band]	10.60 GHz
Conversion Gain		48 dB min., 62 dB max.
Gain Variation		6 dB max. over frequency
		1.5 dB max. in any 36 MHz segment
Noise Figure at + 25 degree C		0.8 dB typ., 1.0 dB max.
Output Power for 1 dB Gain Compression		0 dBm min. @ +25 C
Output Intercept Point of 3rd Order Intermodulation		+5 dBm min.
Local Stability (Initial Setting Error & Over Temperature)		+/- 10 ppm max.
L. O. Phase Noise (SSB)	@ 100 Hz	-50 dBc/Hz typ
	@ 1 kHz	-70 dBc/Hz typ
	@ 10 kHz	-75 dBc/Hz typ
	@ 100 kHz	-85 dBc/Hz typ
	@ 1 MHz	-105 dBc/Hz typ
Local Leakage Levels		-40 dBm max. at the IF Output Connector
		-60 dBm max. at the RF Input Flange
Image Rejection		40 dB min.
Spurious		-120 dBm max. at input, fixed frequency spur, unrelated to test CW signal
		-40 dBc typ., -30 dBc max with test CW sicnal -10 dBm IF output
Input V.S.W.R.		2.5 : 1 typ.
Output Impedance		75 ohms nom. (F-type Female Connecter)
		50 ohms nom. (N-type Female Connecter)
Output V. S. W.R.		2.3 : 1 max.
Requirement for DC Supply	[Input Port]	IF Output Connector (Combine DC Supply with IF Signal)
	[Input Voltage]	+10 to +24 VDC
	[Current Drain]	170 mA max.

Environmental Specifications		Operating Temperature	Storage Temperature
		-40 to +60 C	-40 to +80 C
Humidity		0 to 100 % Rh	
Altitude		15,000 feet max.	
Vibration		5 G (f: 50 Hz, T: 5 min. Direction: X,Y,Z)	
Shock		15 G (Direction: X,Y,Z)	
Comply with RoHS (Restricting the use of Hazardous Substances) directives			

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LNB, Ku Band, PLL

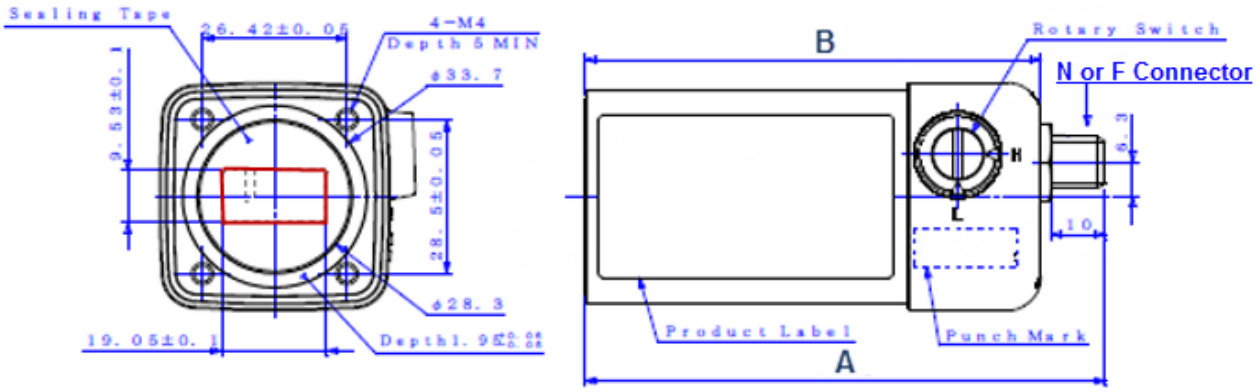
F or N Female Connector, 10ppm Internal Reference

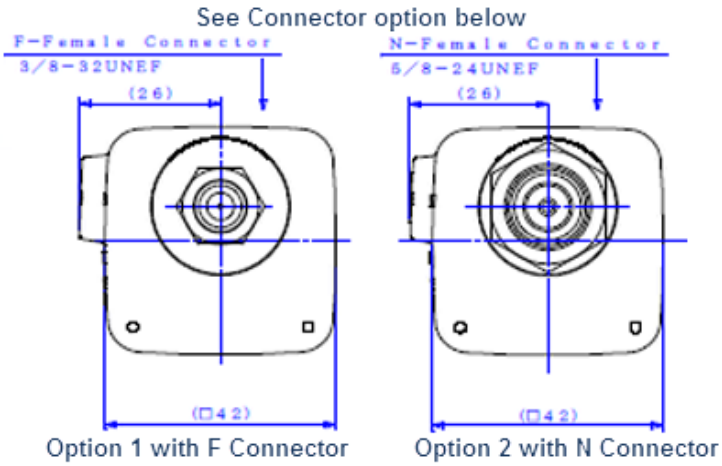
Mechanical Specification		
Input Interface	Wavequide, WR-75 with Groove	
Output Interface	**Connector**	**Weight**
	F-type, Female	210 g [0.46 lbs]
	N-tvpe, Female	240 g [0.53 lbs]
Dimension Outline drawing	**Model #1 (Mechanical Switch)**	**Model #2 & 3 22KHz Tone and Input voltage**
Dimension & Housing (without Interface Connector)	(L) 83.4 x (W) 42 x (H) 42 mm	(L) 82.2 x (W) 40 x (H) 40 mm
	(L) 3.28" x (W) 1.65" x (H) 1.65"	(L) 3.28" x (W) 1.65" x (H) 1.57"

Band Switching

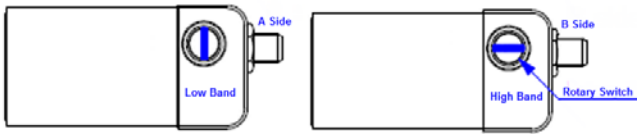
Band		Model #1 Mechanical Switch		Model #2 Tone 22KHz Switch		Model #3 Input Voltage Switch	
Low Band		A Side (Initial Set)		0 to 0.2 Vp-p		Low voltage (+10 to+14V)	
High Band		B Side		0.4 to 0.8 Vp-p		High voltage (+15.5 to+24V)	
Note				Specs: Wave form: Square-wave Freq: 22 ± 4KHz Duty Cycle: 30-70%			
Type Connectors		F Connector	N Connector	F Connector	N Connector	F Connector	N Connector
Length	A	95.2mm	100mm	95.2mm	100mm	95.2mm	100mm
	B	83.4mm	83.4mm	82.2mm	82.2mm	82.2mm	82.2mm

Outline Drawing





M1 Mechanical Switchs Option



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