



# LNB

## KA-BAND QUAD BAND PLL

### 9000H4



### SPECIFICATIONS

<b>Noise Figure</b>	2.0 dB max. at room temp. @ CF
<b>L.O. Stability</b>	± 10 KHz max.
<b>Phase Noise (SSB) max.</b>	-70 dBc/Hz at 1 kHz -80 dBc/Hz at 10 kHz -95 dBc/Hz at 100 kHz
<b>Input VSWR</b>	3.5 : 1 max. - no isolator 1.3 : 1 max. - with isolator
<b>Output VSWR</b>	2.0 : 1 max.
<b>Gain</b>	62 dB typ., 58 dB min., 65 dB max.
<b>Gain Flatness (over full band)</b>	≤ 4 dB p-p
<b>Output P1dB</b>	+ 10 dBm min.

<b>DC Power</b>	+ 12V to + 24V DC (See below for Band Select)
<b>Tone:</b>	<b>Frequency</b> 22 kHz ± 4 kHz <b>Amplitude Voltage</b> 0.6 ± 0.2 V <b>Duty Cycle</b> 50% ± 10%
<b>Current</b>	350 mA max.
<b>Input (waterproof)</b>	WR-42 waveguide grooved
<b>Output (waterproof)</b>	F-Connector (75 Ohm) N-Connector (50 Ohm)
<b>Dimensions (L x W x H)</b>	134 mm x 67 mm x 37 mm (5.28 in x 2.6 in x 1.5 in) - no isolator 156 mm x 67 mm x 37 mm (6.1 in x 2.6 in x 1.5 in) - with isolator
<b>Weight</b>	550 g (19.40 oz)
<b>Operating Temperature</b>	- 40 to + 60°C
<b>Storage Temperature</b>	- 40 to + 80°C

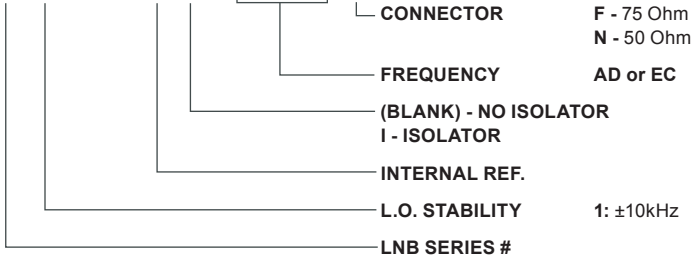
### FREQUENCY BANDS

Model		<b>Band 1</b> (13V)	<b>Band 2</b> (13V / 22 kHz Tone)	<b>Band 3</b> (18V)	<b>Band 4</b> (18V / 22 kHz Tone)
EC	<b>Frequency Band (GHz)</b>	17.20 - 18.20	18.20 - 19.20	19.20 - 20.20	20.20 - 21.20
	<b>L.O. Frequency (GHz)</b>	16.25	17.25	18.25	19.25
	<b>IF Frequency (MHz)</b>	950 - 1950	950 - 1950	950 - 1950	950 - 1950
AD	<b>Frequency Band (GHz)</b>	18.20 - 19.20	19.20 - 20.20	20.20 - 21.20	21.20 - 22.20
	<b>L.O. Frequency (GHz)</b>	17.25	18.25	19.25	20.25
	<b>IF Frequency (MHz)</b>	950 - 1950	950 - 1950	950 - 1950	950 - 1950



## HOW TO ORDER

# 9100HI4ADN



## MECHANICAL DIAGRAM

