



LNB

KA-BAND QUAD BAND PLL

9000H4

SPECIFICATIONS

Noise Figure	2.0 dB max. at room temp. @ CF
L.O. Stability	± 10 KHz max.
Phase Noise (SSB) max.	-70 dBc/Hz at 1 kHz -80 dBc/Hz at 10 kHz -95 dBc/Hz at 100 kHz
Input VSWR	3.5 : 1 max. - no isolator 1.3 : 1 max. - with isolator
Output VSWR	2.2 : 1 max.
Gain	60 dB typ., 55 dB min., 65 dB max.
Gain Flatness (over full band)	≤ 4 dB p-p
Output P1dB	+ 10 dBm min.



DC Power		+ 12V to + 24V DC (See below for Band Select)
Tone:	Frequency	22 kHz ± 4 kHz
	Amplitude	0.6 ± 0.2 V
	Voltage	
	Duty Cycle	50% ± 10%
Current		350 mA max.
Input (waterproof)		WR-42 waveguide grooved
Output (waterproof)	F-Connector (75 Ohm)	
	N-Connector (50 Ohm)	
Dimensions (L x W x H)	118 mm x 67 mm x 38 mm	
	(4.6 in x 2.6 in x 1.5 in) - no isolator	
	140 mm x 67 mm x 38 mm	
	(5.5 in x 2.6 in x 1.5 in) - with isolator	
Weight		550 g (19.40 oz)
Operating Temperature		- 40 to + 60°C
Storage Temperature		- 40 to + 80°C

FREQUENCY BANDS

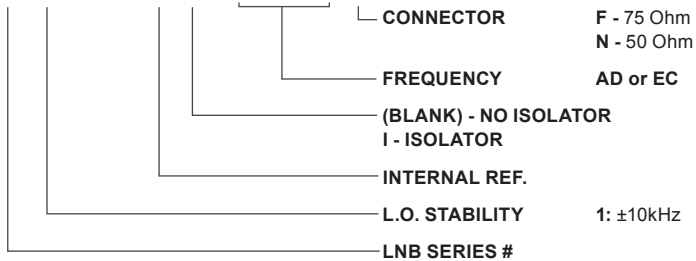
Model		Band 1 (13V)	Band 2 (13V / 22 kHz Tone)	Band 3 (18V)	Band 4 (18V / 22 kHz Tone)
EC	Frequency Band (GHz)	17.20 - 18.20	18.20 - 19.20	19.20 - 20.20	20.20 - 21.20
	L.O. Frequency (GHz)	16.25	17.25	18.25	19.25
	IF Frequency (MHz)	950 - 1950	950 - 1950	950 - 1950	950 - 1950
AD	Frequency Band (GHz)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





HOW TO ORDER

9100HI4ADN



MECHANICAL DIAGRAM

