



# LNB

## KA-BAND MULTI BAND PLL

## 7000 SERIES



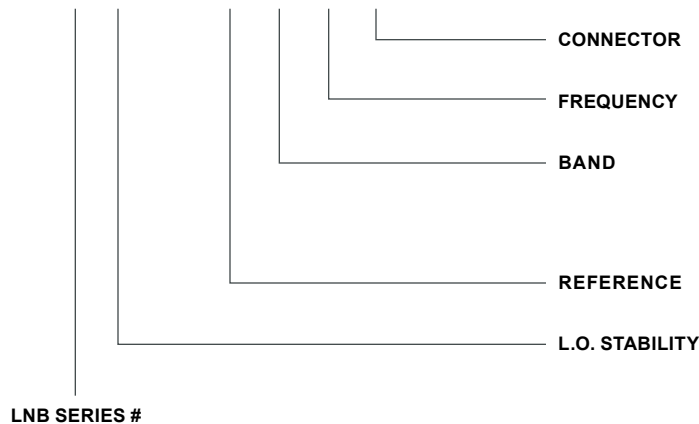
### SPECIFICATIONS

<b>Noise Figure</b>	1.3 dB typ., 1.5 dB max. at room temp. @ CF
<b>L.O. Stability</b>	±10kHz; ±25kHz; ±50kHz
<b>Phase Noise (SSB) max.</b>	-73 dBc/Hz at 1kHz -83 dBc/Hz at 10kHz -93 dBc/Hz at 100 kHz
<b>Input VSWR</b>	2.5 : 1 max.
<b>Output VSWR</b>	2.5 : 1 max.
<b>Gain</b>	60 dB typ., 55 dB min, 65 dB max.
<b>Gain Flatness (over full band)</b>	≤ 5 dB p-p max. ≤ 1 dB p-p over any 36MHz
<b>Output P1dB</b>	+5 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>	450 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>	119 mm x 44 mm x 43 mm (4.67 in x 1.72 in x 1.70 in)
<b>Weight</b>	400g max. (14.11 oz)
<b>Operating Temperature</b>	- 40 to + 70°C
<b>Storage Temperature</b>	- 45 to + 80°C

### HOW TO ORDER

## 7200HDAF



- F - 75 Ohm
- N - 50 Ohm
- A / B / C / D / E  
(Please see next page for frequency bands)
- D: Dual-Band
- T: Triple-Band
- U: Quad-Band
- P: Five-Band
- H: Internal Reference
- X: External Reference
- 0: External Reference only
- 1: ±10 kHz
- 2: ±25 kHz
- 5: ±50 kHz



## FREQUENCY BANDS

Dual Band				Triple Band					
Band	RF freq. (GHz)		Voltage/Tone	Band	RF Freq. (GHz)		Voltage/Tone		
A	Band 1	17.75 - 18.75	13 V	A	Band 1	17.70 - 18.70	13 V		
	Band 2	18.35 - 19.35	18 V		Band 2	18.45 - 19.45	13 V / 22 kHz		
B	Band 1	18.20 - 19.20	13 V		Band 3	19.20 - 20.20	18 V		
	Band 2	19.20 - 20.20	18 V	B	Band 1	17.70 - 18.70	13 V		
C	Band 1	18.40 - 19.40	13 V		Band 2	18.70 - 19.70	13 V / 22 kHz		
	Band 2	19.20 - 20.20	18 V		Band 3	19.70 - 20.20	18 V		
D	Band 1	19.20 - 20.20	13 V	C	Band 1	17.90 - 18.30	13 V		
	Band 2	20.20 - 21.20	18 V		Band 2	18.30 - 19.30	13 V / 22 kHz		
E	Band 1	17.20 - 18.20	13 V		Band 3	19.30 - 20.30	18 V		
	Band 2	17.50 - 18.50	18 V	D	Band 1	18.20 - 19.20	13 V		
Quad Band	RF Freq. (GHz)		Voltage/Tone		E	Band 2	19.20 - 20.20	13 V / 22 kHz	
	A	Band 1	17.20 - 18.20			13 V	Band 3	20.20 - 21.20	18 V
		Band 2	18.20 - 19.20	13 V / 22 kHz		E	Band 1	17.50 - 18.50	13 V
		Band 3	19.20 - 20.20	18 V			Band 2	18.20 - 19.20	13 V / 22 kHz
Band 4		20.20 - 21.20	18 V / 22 kHz	Band 3			19.20 - 20.20	18 V	
B	Band 1	17.50 - 18.50	13 V	Five Band		RF Freq. (GHz)		Voltage/Tone	
	Band 2	18.40 - 19.40	13 V / 22 kHz	A	Band 1	17.20 - 18.20	13 V		
	Band 3	19.30 - 20.30	18 V		Band 2	18.00 - 19.00	13 V / 22 kHz		
	Band 4	20.20 - 21.20	18 V / 22 kHz		Band 3	18.70 - 19.70	18 V		
WR42 GROOVE WAVEGUIDE			Band 4		19.40 - 20.40	18 V / 22 kHz			
4X M3X0.5 $\nabla$ 0.250			Band 5		20.30 - 21.30	24 V			

## MECHANICAL DIAGRAM

