



LNB

KA-BAND MULTI BAND PLL 7000 SERIES

SPECIFICATIONS

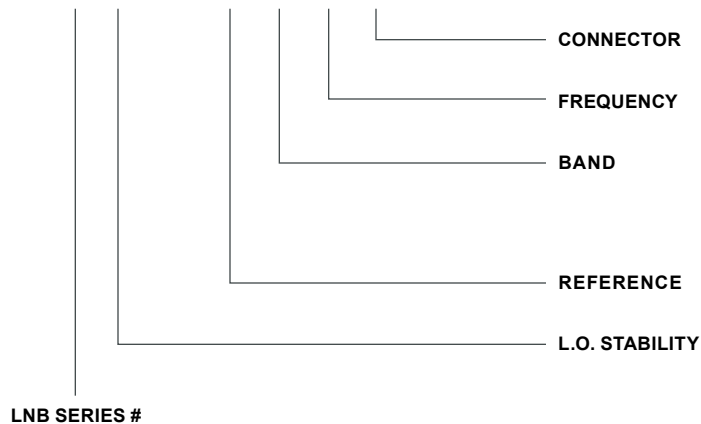
Noise Figure	1.3 dB typ., 1.5 dB max. at room temp. @ CF
L.O. Stability	±10kHz; ±25kHz; ±50kHz
Phase Noise (SSB) max.	-73 dBc/Hz at 1kHz -83 dBc/Hz at 10kHz -93 dBc/Hz at 100 kHz
Input VSWR	2.5 : 1 max.
Output VSWR	2.5 : 1 max.
Gain	60 dB typ., 55 dB min, 65 dB max.
Gain Flatness (over full band)	≤ 5 dB p-p max. ≤ 1 dB p-p over any 36MHz
Output P1dB	+5 dBm min.



DC Power		+ 12V to + 24V DC (see below for Band Select)
Tone:	Frequency	22 kHz ± 4 kHz
	Amplitude Voltage	0.6 ± 0.2 V
	Duty Cycle	50% ± 10%
Current		450 mA max.
Input (waterproof)		WR-42 waveguide grooved
Output (waterproof)		F-Connector (75 Ohm) N-Connector (50 Ohm)
Dimensions (L x W x H)		119 mm x 44 mm x 43 mm (4.67 in x 1.72 in x 1.70 in)
Weight		400g max. (14.11 oz)
Operating Temperature		- 40 to + 70°C
Storage Temperature		- 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	
E	Band 1	17.20 - 18.20	13 V		Band 2	19.20 - 20.20	13 V / 22 kHz	
	Band 2	17.50 - 18.50	18 V		Band 3	20.20 - 21.20	18 V	
Quad Band <td colspan="4">Five Band</td>				Five Band				
Band	RF Freq. (GHz)		Voltage/Tone	Band	RF Freq. (GHz)		Voltage/Tone	
A	Band 1	17.20 - 18.20	13 V	A	Band 1	17.20 - 18.20	13 V	
	Band 2	18.20 - 19.20	13 V / 22 kHz		Band 2	18.00 - 19.00	13 V / 22 kHz	
	Band 3	19.20 - 20.20	18 V			Band 3	18.70 - 19.70	18 V
	Band 4	20.20 - 21.20	18 V / 22 kHz				Band 4	19.40 - 20.40
B	Band 1	17.50 - 18.50	13 V		Band 5	20.30 - 21.30		24 V
	Band 2	18.40 - 19.40	13 V / 22 kHz	Band 1		17.70 - 18.70		13 V
	Band 3	19.30 - 20.30	18 V			Band 2	18.45 - 19.45	13 V / 22 kHz
	Band 4	20.20 - 21.20	18 V / 22 kHz	Band 3	19.20 - 20.20		18 V	

MECHANICAL DIAGRAM

