



LNB

KU-BAND SINGLE / MULTI BAND PLL 2000 Series

SPECIFICATIONS

Noise Figure (room temperature: 17°C)	0.7 dB typ., 0.8 dB max. at room temp. @ CF 0.8 dB typ., 0.9 dB max. at room temp. @ CF 0.9 dB typ., 1.0 dB max. at room temp. @ CF	DC Power	+ 12V to + 24V DC (See below for Band Select)
L.O. Stability	±10kHz, ±25 kHz	Tone:	Frequency 22 kHz ±4 kHz Amplitude Voltage 0.6 ± 0.2 V Duty Cycle 50% ±10%
Phase Noise (SSB) max.	-75 dBc at 1 kHz -80 dBc at 10 kHz -93 dBc at 100 kHz	Current	350 mA max.
Input VSWR	2.3 : 1 max.	Input (waterproof)	WR-75 waveguide grooved
Output VSWR	2.2 : 1 max.	Output (waterproof)	F-Connector (75 Ohm) N-Connector (50 Ohm)
Gain	60 dB Typ., 55 dB min. 65 dB max.	Dimensions (L x W x H)	113 mm x 44 mm x 43 mm (4.46 in x 1.72 in x 1.70 in)
Gain Flatness (over full band)	≤ 6 dB p-p	Weight	300 g (14.11 oz)
Output P1dB	+ 5 dBm min.	Operating Temperature	- 40 to +70°C
		Storage Temperature	- 50 to +80°C



HOW TO ORDER

2108HSAF

CONNECTOR	F: 75 Ohm N: 50 Ohm
FREQUENCY	A / B / C / D / E / F / G (Please see next page for frequency bands)
BAND	S: Single-Band D: Dual-Band T: Triple-Band U: Quad-Band
REFERENCE	H: Internal Reference X: External Reference
NOISE FIGURE	7: 0.7 dB 8: 0.8 dB 9: 0.9 dB
L.O STABILITY	0: External Reference 1: ±10 kHz 2: ±25 kHz

LNB SERIES #





FREQUENCY BANDS

Single Band					Dual Band											
Band	RF freq (GHz)		L.O freq (GHz)	Output freq		Band	RF freq (GHz)		L.O freq (GHz)	Output freq	Voltage/Tone					
A	11.7 - 12.20		10.75	950 - 1450 MHz			A	Band 1	10.95 - 11.70	10	950 - 1700 MHz	13 V				
B	12.25 - 12.75		11.3	950 - 1450 MHz				Band 2	11.95 - 12.75		950 - 1750 MHz	18 V				
C	10.95 - 11.70		10	950 - 1700 MHz												
D	10.70-11.80		9.75	950 - 2050 MHz												
Triple Band						Band	Band 1	10.95 - 11.70	10	950 - 1700 MHz	13 V					
Band	RF freq (GHz)		L.O freq (GHz)	Output freq	Voltage/Tone							Band 2	11.70 - 12.75	10.75	950 - 2000 MHz	18 V
A	Band 1	10.95 - 11.70	10	950 - 1700 MHz	13 V											
	Band 2	11.70 - 12.20	10.75	950 - 1450 MHz	13 V / 22 kHz											
	Band 3	12.20 - 12.75	11.25	950 - 1500 MHz	18 V											
B	Band 1	10.95 - 11.70	10	950 - 1700 MHz	13 V	C	Band 1	10.95 - 11.75	10	950 - 1750 MHz	13 V					
	Band 2	11.70 - 12.25	10.75	950 - 1500 MHz	13 V / 22 kHz		Band 2	11.75 - 12.75	10.8	950 - 1950 MHz	18 V					
	Band 3	12.25 - 12.75	11.3	950 - 1450 MHz	18 V											
C	Band 1	10.70 - 11.70	9.75	950 - 1950 MHz	13 V	D	Band 1	10.70 - 11.70	9.75	950 - 1950 MHz	13 V					
	Band 2	11.70 - 12.20	10.75	950 - 1450 MHz	13 V / 22 kHz		Band 2	11.70 - 12.75	10.75	950 - 2000 MHz	18 V					
	Band 3	12.20 - 12.75	11.25	950 - 1500 MHz	18 V											
						Quad Band										
D	Band 1	10.70 - 11.70	9.75	950 - 1950 MHz	13 V	Band	RF freq (GHz)		L.O freq (GHz)	Output freq	Voltage/Tone					
	Band 2	11.70 - 12.20	10.75	950 - 1450 MHz	13 V / 22 kHz	A	Band 1	10.70 - 11.20	9.75	950 - 1450 MHz	13 V					
	Band 3	12.20 - 12.75	11.25	950 - 1500 MHz	18 V		Band 2	11.20 - 11.70	10.25	950 - 1450 MHz	13 V / 22 kHz					
E	Band 1	10.70 - 11.70	9.75	950 - 1950 MHz	13 V		Band 3	11.70 - 12.25	10.75	950 - 1500 MHz	18 V					
	Band 2	11.70 - 12.25	10.75	950-1500 MHz	13 V / 22 kHz	Band 4	12.25 - 12.75	11.3	950 - 1450 MHz	18 V / 22kHz						
	Band 3	12.25 - 12.75	11.3	950-1450 MHz	18 V	B	Band 1	10.70 - 10.95	9.75	950 - 1200 MHz	13 V					
F	Band 1	10.95 - 11.70	10	950 - 1700 MHz	13 V		Band 2	10.95 - 11.70	10	950 - 1700 MHz	13 V / 22 kHz					
	Band 2	11.55 - 12.25	10.6	950 - 1650 MHz	13 V / 22 kHz		Band 3	11.70 - 12.25	10.75	950 - 1500 MHz	18 V					
	Band 3	12.20 - 12.70	11.25	950 - 1450 MHz	18 V	Band 4	12.25 - 12.75	11.3	950 - 1450 MHz	18 V / 22kHz						
G	Band 1	10.70 - 11.80	9.75	950 - 2050 MHz	13 V	C	Band 1	10.70 - 11.20	9.75	950 - 1450 MHz	13 V					
	Band 2	10.95 - 12.10	10	950 - 2100 MHz	13 V / 22 kHz		Band 2	11.20 - 11.70	10.25	950 - 1450 MHz	13 V / 22 kHz					
	Band 3	11.70 - 12.75	10.75	950 - 2000 MHz	18 V		Band 3	11.70 - 12.20	10.75	950 - 1450 MHz	18 V					
H	Band 1	10.70 - 11.70	9.75	950 - 1950 MHz	13 V		Band 4	12.20 - 12.75	11.25	950 - 1500 MHz	18 V / 22kHz					
	Band 2	11.70 - 12.70	10.75	950 - 1950 MHz	13 V / 22 kHz	D	Band 1	10.95 - 11.45	10	950 - 1450 MHz	13 V					
	Band 3	12.25 - 12.75	11.3	950 - 1450 MHz	18 V		Band 2	11.45 - 11.95	10.5	950 - 1450 MHz	13 V / 22 kHz					
					Band 3		11.70 - 12.20	10.75	950 - 1450 MHz	18 V						
					Band 4		12.20 - 12.75	11.25	950 - 1500 MHz	18 V / 22kHz						

MECHANICAL DIAGRAM

