

2207HUDN

2000 Quad-Band Ku-Band PLL LNB (0.7 dB)

Frequency: D: 10.95 - 11.70 GHz | 11.70 - 12.25 GHz |
12.25 - 12.75 GHz | 10.70 - 11.70 GHz

L.O. Stability: +/- 25 kHz

Output Connector: N: 50 Ohm



REACH



KEY SPECIFICATIONS

Band	Ku-Band
Input Frequency Band 1	10.95 - 11.70 GHz
Input Frequency Band 2	11.70 - 12.25 GHz
Input Frequency Band 3	12.25 - 12.75 GHz
Input Frequency Band 4	10.70 - 11.70 GHz
LO Frequency 1	10.00 GHz
LO Frequency 2	10.75 GHz
LO Frequency 3	11.30 GHz
LO Frequency 4	9.75 GHz
LO Stability	±25 kHz
LO Type	PLL
Noise Figure Max	0.8 dB
Noise Figure Typ	0.7 dB
Number Of Onboard Los	Quad-Band
Output Frequency Band 1	950 - 1700 MHz
Output Frequency Band 2	950 - 1500 MHz
Output Frequency Band 3	950 - 1450 MHz
Output Frequency Band 4	950 - 1950 MHz
Tone Frequency	22 kHz ± 4 kHz

RF SPECIFICATIONS

Control Signal 1	13V / No Tone
Control Signal 2	13V / 22kHz Tone

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Control Signal 3	18V / No Tone
Control Signal 4	18V / 22kHz Tone
Conversion Gain Max	65 dB
Conversion Gain Min	55 dB
Conversion Gain Typ	60 dB
Gain Flatness (over Full Band)	≤ 6 dB p-p
Input VSWR	2.3 : 1 max.
Output P1db	+ 5 dBm min.
Output VSWR	2.2 : 1 max.
Phase Noise 0.1kHz Offset Max	-125 dBc/Hz

ELECTRICAL SPECIFICATIONS

Current Consumption	350 mA max
Power Requirements	+12 to +24V DC

INTERFACE SPECIFICATIONS

IF Connector	N-Connector
RF Input Connector	WR-75 waveguide grooved

ENVIRONMENTAL SPECIFICATIONS

Humidity	0 - 95%
IP Rating	IP 66
Temperature Operational	-40°C to +70°C
Temperature Storage	-50 to +80°C

PHYSICAL SPECIFICATIONS

Product Height	1.70 in
Product Length	4.46 in
Product Weight	0.255 kg
Product Width	1.72 in

LOGISTICS SPECIFICATIONS

HS Code	Country of Origin	Ex Works	ECCN Number	Unit Package
	Made in Canada	Richmond, BC, Canada	EAR99	135 mm x 68 mm x 48 mm 0.335 kg

HOW TO ORDER



2108HSAF

LNB SERIES #	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

MECHANICAL DIAGRAMS

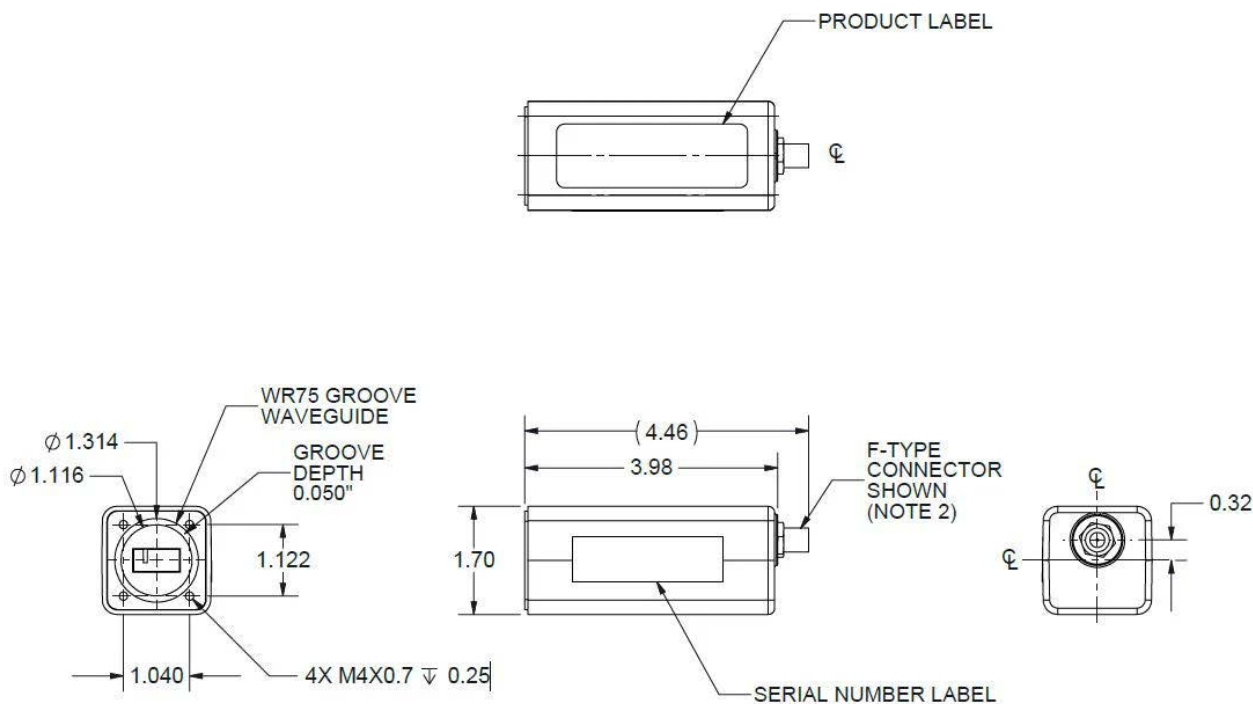
FREQUENCY BANDS

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	11.70 - 12.75	10.75	950 - 2000 MHz	18 V	
C	10.95 - 11.70		10	950 - 1700 MHz	B	Band 1	10.70 - 11.70	9.75	950 - 1950 MHz	13 V	
D	10.70-11.80		9.75	950 - 2050 MHz		Band 2	11.70 - 12.75	10.75	950 - 2000 MHz	18 V	
Triple Band					C <td>Band 1</td> <td>10.70 - 11.70</td> <td>9.75</td> <td>950 - 1950 MHz</td> <td>13 V</td>	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 - 12.75	10.75	950 - 2000 MHz	18 V
A	Band 1	10.95 - 11.70	10	950 - 1700 MHz	13 V	D	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 2	12.25 - 12.75	11.3	950 - 1450 MHz	18 V
	Band 3	12.20 - 12.75	11.25	950 - 1500 MHz	18 V	D	Band 1	10.70 - 11.70	9.75	950 - 1950 MHz	13 V
B	Band 1	10.95 - 11.70	10	950 - 1700 MHz	13 V		Band 2	11.70 - 12.25	10.75	950 - 1500 MHz	13 V / 22 kHz
	Band 2	11.70 - 12.25	10.75	950 - 1500 MHz	13 V / 22 kHz	Band 3	12.25 - 12.75	11.3	950 - 1450 MHz	18 V	
	Band 3	12.25 - 12.75	11.3	950 - 1450 MHz	18 V	Quad Band					
C	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
D	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
E	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
F	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
G	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	



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