

2007XTBN

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

Frequency: B: 10.95 - 11.70 GHz | 11.70 - 12.25 GHz |

12.25 - 12.75 GHz

L.O. Stability: External Reference Output Connector: N: 50 Ohm







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
LO Frequency 1	10.00 GHz
LO Frequency 2	10.75 GHz
LO Frequency 3	11.30 GHz
LO Stability	Ext Ref
LO Type	PLL
Noise Figure Max	0.8 dB
Noise Figure Typ	0.7 dB
Number Of Onboard Los	Triple-Band
Output Frequency Band 1	950 - 1700 MHz
0	
Output Frequency Band 2	950 - 1500 MHz
Output Frequency Band 3	950 - 1500 MHz 950 - 1450 MHz

RF SPECIFICATIONS

Control Signal 1	13V / No Tone
Control Signal 2	13V / 22kHz Tone
Control Signal 3	18V / No Tone
Conversion Gain Max	65 dB
Conversion Gain Min	55 dB





Conversion Gain Typ 60 dB

Gain Flatness (over Full Band) \leq 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 Depends on External Reference

Phase Noise 1khz Offset Max Depends on External Reference

Phase Noise 10khz Offset Max Depends on External Reference

Phase Noise 100khz Offset Max Depends on External Reference

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 $-40^{\circ}\text{C to } +70^{\circ}\text{C}$ Temperature Storage $-50 \text{ to } +80^{\circ}\text{C}$

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

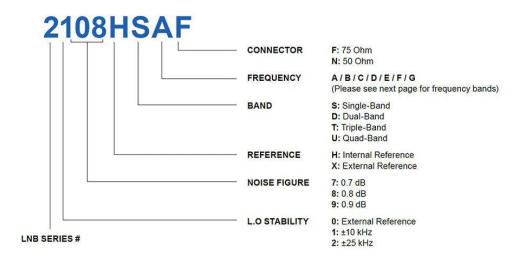
Made in Canada Richmond, BC, Canada EAR99 135 x 68 x 48 mm |

0.335 kg

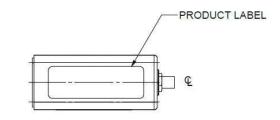
HOW TO ORDER

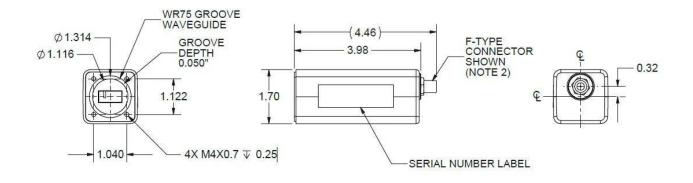






MECHANICAL DIAGRAMS







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	
Α		1.7 - 12.20	10.75		- 1450 MHz		Band 1	10.95 - 11.70	10	950 - 1700 MHz	13 V	
B C	-	2.25 - 12.75	11.3 10		- 1450 MHz	Α		10.00		000 1700 III IL	,	
D	10.95 - 11.70 10.70-11.80		9.75	950 - 1700 MHz 950 - 2050 MHz		1	Band 2	11.70 - 12.75	10.75	950 - 2000 MHz	18 V	
			Triple Band			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	В	Danu I	10.70 - 11.70	5.13	930 - 1930 WITZ	13 Y	
	Band 1	10.95 - 11.70	10	950 - 1700 MHz	13 V		Band 2	11.70 - 12.75	10.75	950 - 2000 MHz	18 V	
Α	Band 2	11.70 - 12.20	10.75	950 - 1450 MHz	13 V / 22 kHz	С	Band 1	10.95 - 11.70	10	950 - 1700 MHz	13 V	
	Band 3	12.20 - 12.75	11.25	950 - 1500 MHz	18 V		Band 2	12.25 - 12.75	11.3	950 - 1450 MHz	18 V	
	Band 1	10.95 - 11.70	10	950 - 1700 MHz	13 V		Band 1	10.70 - 11.70	9.75	950 - 1950 MHz	13 V	
В	Band 2	11.70 - 12.25	10.75	950 - 1500 MHz	13 V / 22 kHz	D						
	Band 3	12.25 - 12.75	11.3	950 - 1450 MHz	18 V		Band 2	11.70 - 12.75	10.6	1100 - 2150 MHz	18 V	
	Band 1	10.70 - 11.70	9.75	950 - 1950 MHz	13 V				Quad Band			
	Dallu I	10.70 - 11.70	9.75	930 - 1930 WHZ	13 V	Band		freq (GHz)	L.O freq (GHz)	Output freq	Voltage/Tone	
С	Band 2	11.70 - 12.20	10.75	950 - 1450 MHz	13 V / 22 kHz		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	A	Band 2	11.20 - 11.70	10.25	950 - 1450 MHz	13 V / 22 kHz	
	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	
D	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		Band 1	10.70 - 10.95	9.75	950 - 1200 MHz	13 V	
	Danu 3	12.25 - 12.75		930-1430 WI 12		В	Band 2	10.95 - 11.70	10	950 - 1700 MHz	13 V / 22 kHz	
	Band 1	10.95 - 11.70	10	950 - 1700 MHz	13 V		Band 3	11.70 - 12.25	10.75	950 - 1500 MHz	18 V	
E	Band 2	11.55 - 12.25	10.6	950 - 1650 MHz	13 V / 22 kHz		Band 4	12.25 - 12.75	11.3	950 - 1450 MHz	18 V / 22kHz	
	Band 3	12.20 - 12.70	11.25	950 - 1450 MHz	18 V		Band 1	10.70 - 11.20	9.75	950 - 1450 MHz	13 V	
	Band 1	10.70 - 11.80	9.75	950 - 2050 MHz	13 V	С	Band 2	11.20 - 11.70	10.25	950 - 1450 MHz	13 V / 22 kHz	
F	Band 2	10.95 - 12.10	10	950 - 2100 MHz	13 V / 22 kHz		Band 3	11.70 - 12.20	10.75	950 - 1450 MHz	18 V	
	Band 3	11.70 - 12.75	10.75	950 - 2000 MHz	18 V		Band 4	12.20 - 12.75	11.25	950 - 1500 MHz	18 V / 22kHz	
G	Band 1	10.70 - 11.70	9.75	950 - 1950 MHz	13 V		Band 1	10.95 - 11.45	10	950 - 1450 MHz	13 V	
	Band 2	11.70 - 12.70	10.75	950 - 1950 MHz	13 V / 22 kHz	D	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 3	12.25 - 12.75	11.3	950 - 1450 MHz	18 V		Band 4	12.20 - 12.75	11.25	950 - 1500 MHz	18 V / 22kHz	



