

2007XTCF

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

Frequency: C: 10.70 - 11.70 GHz | 11.70 - 12.20 GHz |

12.20 - 12.75 GHz L.O. Stability: External Reference Output Connector: F: 75 Ohm







KEY SPECIFICATIONS

Band Ku-Band 10.70 - 11.70 GHz Input Frequency Band 1 Input Frequency Band 2 11.70 - 12.20 GHz **Input Frequency Band 3** 12.20 - 12.75 GHz 9.75 GHz LO Frequency 1 10.75 GHz LO Frequency 2 LO Frequency 3 11.25 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 - 1950 MHz Output Frequency Band 2 950 - 1450 MHz **Output Frequency Band 3** 950 - 1500 MHz **Tone Frequency** 22 kHz ± 4 kHz

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) $\leq 6 \text{ dB p-p}$

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 F-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

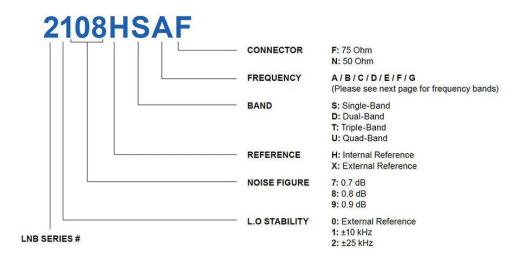
Made in Canada Richmond, BC, Canada EAR99 $135 \times 68 \times 48 \text{ mm}$ |

0.335 kg

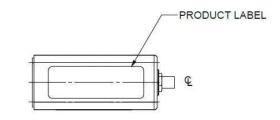
HOW TO ORDER

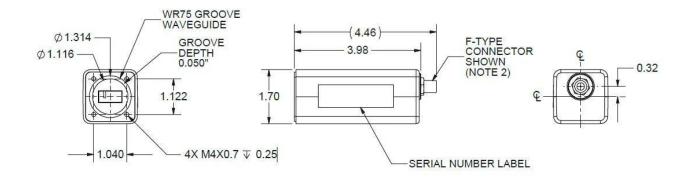






MECHANICAL DIAGRAMS







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	12.25 - 12.75 10.95 - 11.70		11.3 10	950 - 1450 MHz 950 - 1700 MHz		A	Dana 1	10.00 11.10	<u> </u>	7700 111112		
D	10.95 - 11.70		9.75	950 - 1700 MHz			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/To	Voltage/Tone	В	Banu 1	10.70 - 11.70	9.75	950 - 1950 MHZ	13 V	
	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	D	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		Danu I	10.70 - 11.70	5.13	930 - 1930 WITZ	13 V	
							Band 2	11.70 - 12.75	10.6	1100 - 2150 MHz	18 V	
	Band 3	12.25 - 12.75	11.3	950 - 1450 MHz	18 V				Quad 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	
С	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	
	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	
						В	Band 1	10.70 - 10.95	9.75	950 - 1200 MHz	13 V	
	Band 3	12.25 - 12.75	11.3	950-1450 MHz	18 V		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	С	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		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	
	Band 1	10.70 - 11.70	9.75	950 - 1950 MHz	13 V	D	Band 1	10.95 - 11.45	10	950 - 1450 MHz	13 V	
G	Band 2	11.70 - 12.70	10.75	950 - 1950 MHz	13 V / 22 kHz		Band 2	11.45 - 11.95	10.5	950 - 1450 MHz	13 V / 22 kHz	
G							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	





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