

## **Innovative Communication Solutions**

# 2008XUCF

# 2000 Quad-Band Ku-Band PLL LNB

#### (0.8 dB)

Frequency: C: 10.70 - 11.20 GHz | 11.20 - 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
Input Frequency Band 1	10.70 - 11.20 GHz
Input Frequency Band 2	11.20 - 11.70 GHz
Input Frequency Band 3	11.70 - 12.20 GHz
Input Frequency Band 4	12.20 - 12.75 GHz
LO Frequency 1	9.75 GHz
LO Frequency 2	10.25 GHz
LO Frequency 3	10.75 GHz
LO Frequency 4	11.25 GHz
LO Stability	Ext Ref
LO Туре	PLL
Noise Figure Max	0.9 dB
Noise Figure Typ	0.8 dB
Number Of Onboard Los	Quad-Band
Output Frequency Band 1	950 - 1450 MHz
Output Frequency Band 2	950 - 1450 MHz
Output Frequency Band 3	950 - 1450 MHz
Output Frequency Band 4	950 - 1500 MHz
Tone Frequency	22 kHz ± 4 kHz

# RF SPECIFICATIONS

Control Signal 1		
Control Signal 2		

13V / No Tone 13V / 22kHz Tone

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18V / No Tor 18V / 22kHz 65 dB 55 dB 60 dB	ne	nunication Solutions			
18V / 22kHz 65 dB 55 dB 60 dB					
65 dB 55 dB 60 dB	Tone				
55 dB 60 dB					
60 dB					
≤ 6 dB p-p					
2.3 : 1 max.					
+ 5 dBm min					
2.2 : 1 max.					
Depends on	External Reference				
350 mA max					
+12 to +24V	+12 to +24V DC				
F-Connector					
Input Connector WR-75 waveguide grooved					
NS					
0 - 95%					
IP 66					
emperature Operational -40°C to +70°C					
Storage -50 to +80°C					
1.70 in					
4.46 in					
0.255 kg					
1.72 in					
Works	ECCN Number	Unit Package			
imond, BC, Canada	EAR99	135 x 68 x 48 mm   0.335 kg			
	2.2 : 1 max. Depends on 350 mA max +12 to +24V F-Connector WR-75 wave NS 0 - 95% IP 66 -40°C to +70 -50 to +80°C 1.70 in 4.46 in 0.255 kg 1.72 in	Depends on External Reference   350 mA max +12 to +24V DC   F-Connector WR-75 waveguide grooved   NS   0 - 95%   IP 66   -40°C to +70°C   -50 to +80°C   1.70 in   4.46 in   0.255 kg   1.72 in   Works			

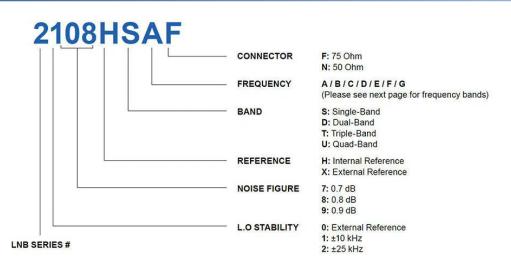
# **HOW TO ORDER**



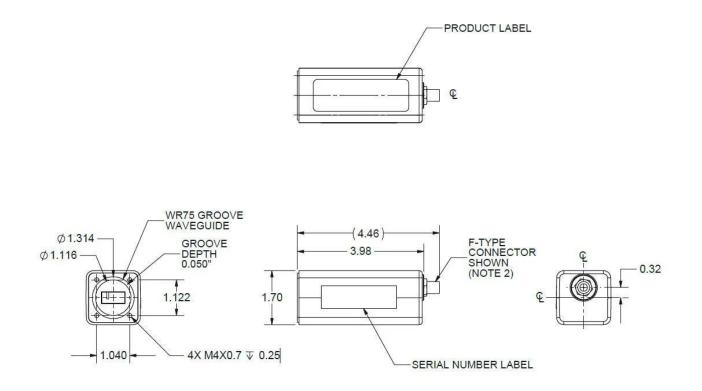
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# **MECHANICAL DIAGRAMS**







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### **FREQUENCY BANDS**

Single Band			Dual Band										
Band	RF	freq (GHz)	L.O freq (GHz)	0	utput freq	Band	RF freq (GHz)		L.O freq (GHz)	Output freq	Voltage/Tone		
A		1.7 - 12.20	10.75		- 1450 MHz	A	Band 1	10.95 - 11.70	10	950 - 1700 MHz	13 V		
B		2.25 - 12.75 ).95 - 11.70	11.3 10		- 1450 MHz		Dana	10.00 11.70		000 1100 1112			
D	_	0.70-11.80	9.75		950 - 1700 MHz 950 - 2050 MHz		950 - 1700 MHz 950 - 2050 MHz		Band 2	11.70 - 12.75	10.75	950 - 2000 MHz	18 V
	1		Triple Band		330 - 2030 Miliz		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	Dallu I	10.70 - 11.70	9.75	900 - 1900 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		
A	Band 2	11.70 - 12.20	10.75	950 - 1450 MHz	13 V / 22 kHz		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	5.15	350 - 1350 MHZ	13 Y		
_							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		
	Danu 2	11.70 - 12.25	10.75	530-1300 WI12	13 V / 22 KHZ		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	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	C	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		
Ŭ							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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