

## **Innovative Communication Solutions**

# 2009XUBF

# 2000 Quad-Band Ku-Band PLL LNB

#### (0.9 dB)

Frequency: B: 10.70 - 10.95 GHz | 10.95 - 11.70 GHz | 11.70 - 12.25 GHz | 12.25 - 12.75 GHz L.O. Stability: External Reference Output Connector: F: 75 Ohm





# **KEY SPECIFICATIONS**

Band	Ku-Band
Input Frequency Band 1	10.70 - 10.95 GHz
Input Frequency Band 2	10.95 - 11.70 GHz
Input Frequency Band 3	11.70 - 12.25 GHz
Input Frequency Band 4	12.25 - 12.75 GHz
LO Frequency 1	9.75 GHz
LO Frequency 2	10.00 GHz
LO Frequency 3	10.75 GHz
LO Frequency 4	11.30 GHz
LO Stability	Ext Ref
LO Туре	PLL
Noise Figure Max	1.0 dB
Noise Figure Typ	0.9 dB
Number Of Onboard Los	Quad-Band
Output Frequency Band 1	950 - 1200 MHz
Output Frequency Band 2	950 - 1700 MHz
Output Frequency Band 3	950 - 1500 MHz
Output Frequency Band 4	950 - 1450 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.	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						
WR-75 wave	WR-75 waveguide grooved					
NS						
0 - 95%						
IP 66						
nperature Operational -40°C to +70°C						
-50 to +80°C	-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				

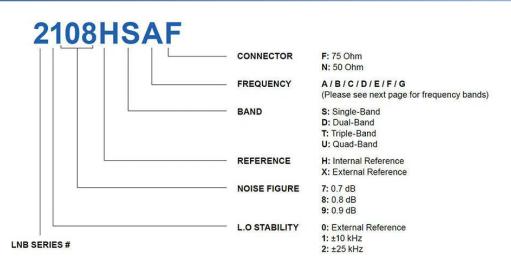
# **HOW TO ORDER**



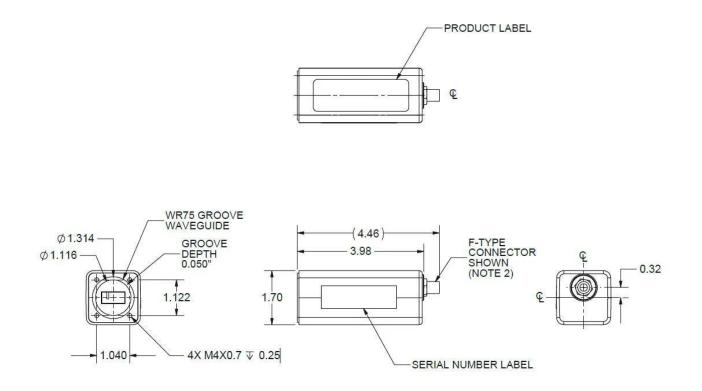
Norsat International Inc.



### **Innovative Communication Solutions**



# **MECHANICAL DIAGRAMS**







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### **FREQUENCY BANDS**

Single Band			Dual Band										
Band	_	freq (GHz)	L.O freq (GHz)		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 0.95 - 11.70	11.3 10		- 1450 MHz - 1700 MHz			Band 2 11.70 - 12.75	10.75	950 - 2000 MHz	18 V		
D		0.70-11.80	9.75		- 1700 MHz - 2050 MHz		Band 2						
			Triple Band	330 - 2030 Militz			Band 1	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	в		Danu i	10.70 - 11.70	5.15	330 - 1330 Miliz	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		
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		Dana 1	10.10 11.10	0.70	000 1000 1112			
	Daniel 2	40.05 40.75	44.2	050 4450 141-	40.1/		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		
5							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		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	c	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 2	11.70 - 12.70	10.75	900 - 1950 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		



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