

Innovative Communication Solutions

2008XUDF

2000 Quad-Band Ku-Band PLL LNB

(0.8 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: External Reference Output Connector: F: 75 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
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	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 - 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





D | Norsat

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 DC						
F-Connector	F-Connector					
RF Input Connector WR-75 waveguide grooved						
NS						
0 - 95%						
IP 66						
Temperature Operational -40°C to +70°C						
emperature 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				

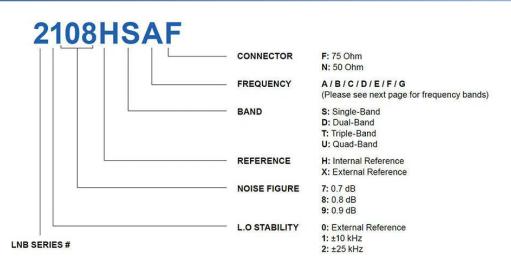
HOW TO ORDER



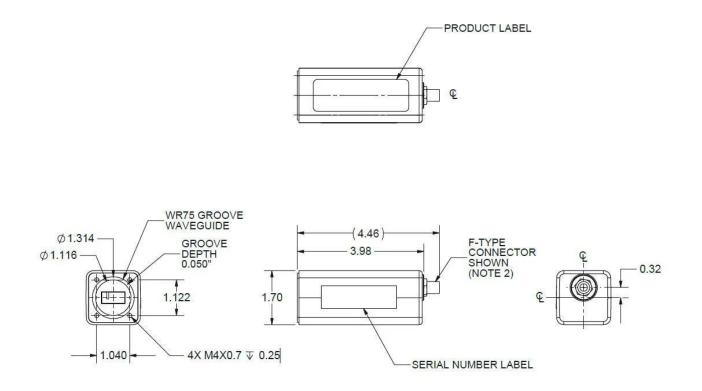
Norsat International Inc.



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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		- 1450 MHz - 1700 MHz		Band 2	11.70 - 12.75	10.75	950 - 2000 MHz	18 V	
D		0.70-11.80	9.75		- 2050 MHz							
	1		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	С	Dana 1	10.10 11.10	0.10	000 1000 1112		
	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		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	10.10 11.10	5.15	330 - 1330 Miliz	15 1	
	Dand 2	40.05 40.75	44.2	050 4450 1415	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	
0						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 - 1 2.10	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	D	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 Band 3	11.45 - 11.95 11.70 - 12.20	10.5	950 - 1450 MHz 950 - 1450 MHz	13 V / 22 kHz 18 V
	Band 3	12.25 - 12.75	11.3	950 - 1450 MHz	18 V		Band 3 Band 4	11.70 - 12.20	10.75 11.25	950 - 1450 MHz 950 - 1500 MHz	18 V	
L	Danu 3	12.23 * 12.13	11.5	330 - 1430 MHZ	10 V		Darlu 4	12.20 - 12.75	11.25	300 - 1300 MHZ	10 Y / 22KHZ	



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