

Innovative Communication Solutions

2207HUDF

2000 Quad-Band Ku-Band PLL LNB

(0.7 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: +/- 25 kHz 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	±25 kHz
LO Туре	PLL
Noise Figure Max	0.8 dB
Noise Figure Typ	0.7 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





Norsat International Inc.

		In	novative Comr	nunication Solutions			
Control Signal 3		18V / No To	ne				
Control Signal 4		18V / 22kHz	z Tone				
Conversion Gain Max		65 dB					
Conversion Gain Min		55 dB					
Conversion Gain Typ		60 dB					
Gain Flatness (over Full I	Band)	≤ 6 dB p-p					
Input VSWR		2.3 : 1 max.					
Output P1db		+ 5 dBm mir	۱.				
Output VSWR		2.2 : 1 max.					
Phase Noise 0.1khz Offse	et Max	-125 dBc/Hz	2				
ELECTRICAL S	PECIFICATION	S					
Current Consumption		350 mA max	(
Power Requirements		+12 to +24	+12 to +24V DC				
INTERFACE SP	ECIFICATIONS						
IF Connector		F-Connecto	r				
RF Input Connector	F Input Connector WR-75 waveguide grooved						
ENVIRONMENT	AL SPECIFICA	TIONS					
Humidity		0 - 95%					
IP Rating		IP 66					
Temperature Operational	emperature Operational -40°C to +70°C						
Temperature Storage		-50 to +80°0	2				
PHYSICAL SPE	CIFICATIONS						
Product Height		1.70 in					
Product Length		4.46 in					
Product Weight		0.255 kg					
Product Width		1.72 in					
LOGISTICS SPI	ECIFICATIONS						
HS Code	Country of Origin	Ex Works	ECCN Number	Unit Package			
	Made in Canada	Richmond, BC, Canada	EAR99	135 mm x 68 mm x 48 mm 0.335 kg			
HOW TO ORDE	R						

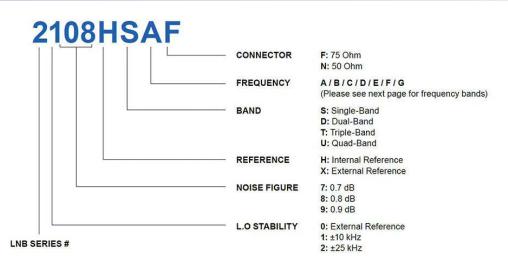
HOW TO ORDER



Norsat International Inc.



Innovative Communication Solutions



MECHANICAL DIAGRAMS

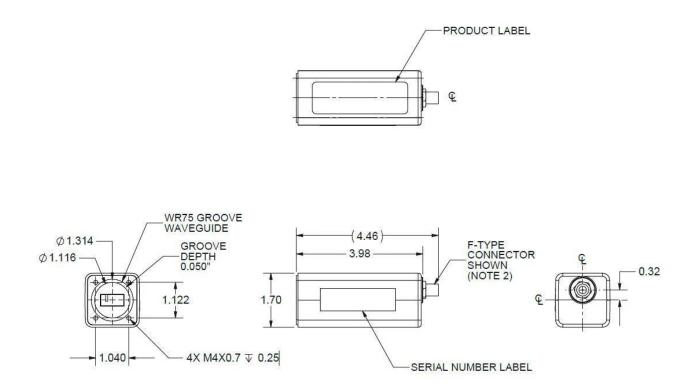
FREQUENCY BANDS

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	
A		1.7 - 12.20	10.75		- 1450 MHz	А	Band 1	10.95 - 11.70	10	950 - 1700 MHz	13 V	
В		2.25 - 12.75	11.3		- 1450 MHz		Cand I	Danu 1 10.95 - 11.70	10	330 - 1700 MIPIZ	13 4	
C).95 - 11.70 0.70-11.80	10 9.75		950 - 1700 MHz 950 - 2050 MHz		Band 2	11.70 - 12.75	10.75	950 - 2000 MHz	18 V	
U			Triple Band	950 - 2050 MH2						050 1050 1010	1011	
Band	RF	freq (GHz)	L.O freq (GHz)	Output freq	Voltage/Tone	в	Band 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	
А	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		,	1	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	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	
							D	Band 2	11.45 - 11.95	10.5	950 - 1450 MHz	13 V / 22 kHz
G	Band 2	11.70 - 12.70	10.75	950 - 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	





Innovative Communication Solutions





Esatcom Inc Norsat authorized distributor www.esatcom.com Tel 718.799.0084 Email sales@esatcom.com