

Innovative Communication Solutions

2007XTGF

2000 Triple-Band Ku-Band PLL LNB

(0.7 dB)

Frequency: G: 10.70 - 11.70 GHz | 11.70 - 12.70 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 - 11.70 GHz
Input Frequency Band 2	11.70 - 12.70 GHz
Input Frequency Band 3	12.25 - 12.75 GHz
LO Frequency 1	9.75 GHz
LO Frequency 2	10.75 GHz
LO Frequency 3	11.30 GHz
LO Stability	Ext Ref
LO Туре	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 - 1950 MHz
Output Frequency Band 3	950 - 1450 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





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Conversion Gain Typ		60 dB					
Gain Flatness (over Fu	III Band)	≤ 6 dB p-p	l de la constante de				
Input VSWR		2.3 : 1 ma	x.				
Output P1db		+ 5 dBm n	nin.				
Output VSWR		2.2 : 1 ma	2.2 : 1 max.				
Phase Noise 0.1khz O	ffset Max	Depends	on External Reference				
Phase Noise 1khz Offs	et Max	Depends	Depends on External Reference				
Phase Noise 10khz Of	fset Max	Depends	Depends on External Reference				
Phase Noise 100khz O	offset Max	Depends	on External Reference				
ELECTRICAL	SPECIFICATIO	NS					
Current Consumption	Current Consumption 350 mA max						
Power Requirements		+12 to +24	1V DC				
INTERFACE S	PECIFICATION	S					
IF Connector		F-Connector					
RF Input Connector		WR-75 wa	WR-75 waveguide grooved				
ENVIRONMEN	ITAL SPECIFIC	ATIONS					
Humidity		0 - 95%					
IP Rating		IP 66					
Temperature Operation	Operational -40°C to +70°C						
Temperature Storage		-50 to +80	-50 to +80°C				
PHYSICAL SP	ECIFICATIONS						
Product Height		1.70 in					
Product Length		4.46 in					
Product Weight		0.255 kg					
Product Width		1.72 in					
LOGISTICS SI	PECIFICATIONS	5					
HS Code	Country of Origin	Ex Works	ECCN Number	Unit Package			
	Made in Canada	Richmond, BC, Canada	EAR99	135 x 68 x 48 mm 0.335 kg			

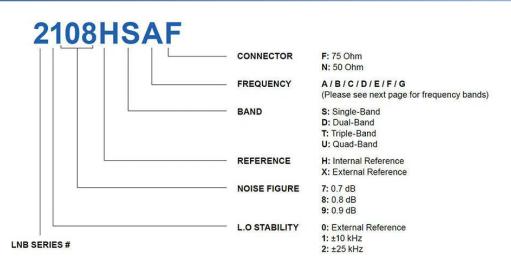
HOW TO ORDER



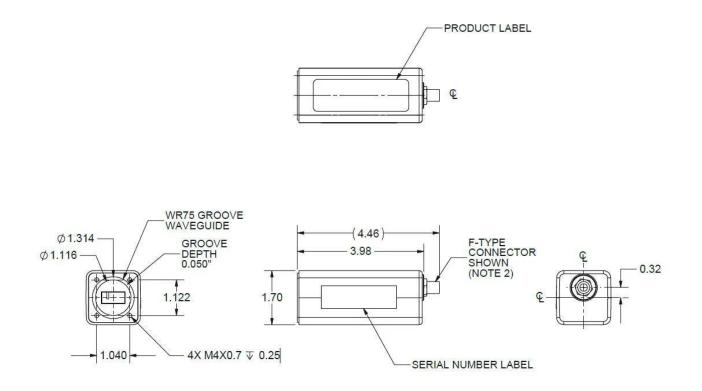
Norsat International Inc.



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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 10		- 1450 MHz - 1700 MHz		Band 2	10.00 11.10				
D		0.70-11.80	9.75		- 1700 MHz - 2050 MHz			11.70 - 12.75	10.75	950 - 2000 MHz	18 V	
			Triple Band	2000 2000 1112			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	В	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	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		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						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	
	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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