

#### **Innovative Communication Solutions**

### **7200HUBN**

#### 7000 Quad-Band Ka-Band PLL LNB

Frequency: B: 17.50 - 18.50 GHz | 18.40 - 19.40 GHz | 19.30 - 20.30 GHz | 20.20 - 21.20 GHz L.O. Stability: +/- 25 kHz Output Connector: N: 50 Ohm

CE 🖌

REACH



#### **KEY SPECIFICATIONS**

Band	Ka-Band
Input Frequency Band 1	17.50 - 18.50 GHz
Input Frequency Band 2	18.40 - 19.40 GHz
Input Frequency Band 3	19.30 - 20.30 GHz
Input Frequency Band 4	20.20 - 21.20 GHz
LO Frequency 1	16.55 GHz
LO Frequency 2	17.45 GHz
LO Frequency 3	18.35 GHz
LO Frequency 4	19.25 GHz
LO Stability	±25 kHz
LO Туре	PLL
Noise Figure Max	1.5 dB
Noise Figure Typ	1.3 dB
Number Of Onboard Los	Quad-Band
Output Frequency Band 1	950 - 1950 MHz
Output Frequency Band 2	950 - 1950 MHz
Output Frequency Band 3	950 - 1950 MHz
Output Frequency Band 4	950 - 1950 MHz
Tone Frequency	22 kHz ± 4 kHz

#### SPECIFICATIONS КГ

Control Signal 1	13V / No Tone
Control Signal 2	13V / 22kHz Tone





# International Inc.

		in	novative Com	munication Solutions
Control Signal 3		18V / No To	ne	
Control Signal 4		18V / 22kHz	Tone	
Conversion Gain Max		65 dB		
Conversion Gain Min		55 dB		
Conversion Gain Typ		60 dB		
Gain Flatness (over Fu	III Band)	≤ 5 dB p-p r	nax.	
Input VSWR		2.5 : 1 max.		
Output P1db		+ 5 dBm mir	I.	
ELECTRICAL	SPECIFICATION	NS		
Current Consumption		450 mA max		
Power Requirements		+12 to +24	' DC	
INTERFACE S	PECIFICATIONS	S		
IF Connector		N-Connecto	r	
RF Input Connector		WR-42 Wave	eguide Grooved	
ENVIRONMEN	ITAL SPECIFICA	ATIONS		
Humidity		0 - 100%		
IP Rating		IP 66		
Temperature Operation	nal	-40°C to +70	)°C	
Temperature Storage		-45 to +80°C		
PHYSICAL SP	ECIFICATIONS			
Product Height		1.70 in		
Product Length		4.67 in		
Product Weight		0.4 kg		
Product Width		1.72 in		
LOGISTICS S	PECIFICATIONS	5		
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   0.48 kg

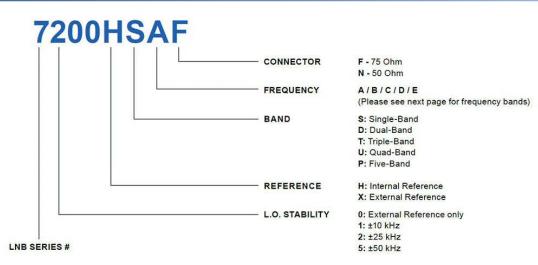
### **HOW TO ORDER**



Norsat International Inc.

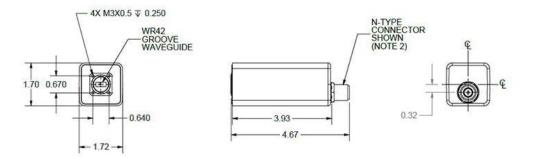


#### **Innovative Communication Solutions**



#### **MECHANICAL DIAGRAMS**









## Norsat

#### **Innovative Communication Solutions**

		Dual Band				Triple Band		
Band	RI	F freq. (GHz)	Voltage/Tone	Band	RI	F Freq. (GHz)	Voltage/Tone	
	Band 1	17.75 - 18.75	13 V		Band 1	17.70 - 18.70	13 V	
A			Balance (	A	Band 2	18.45 - 19.45	13 V / 22 kHz	
	Band 2	18.35 - 19.35	18 V		Band 3	19.20 - 20.20	18 V	
в	Band 1	18.20 - 19.20	13 V	в	Band 1	17.70 - 18.70	13 V	
	21.000		100 BOA		Band 2	18.70 - 19.70	13 V / 22 kHz	
	Band 2	19.20 - 20.20	18 V		Band 3	19.70 - 20.20	18 V	
с	Band 1	18.40 - 19.40	13 V	c	Band 1	17.90 - 18.30	13 V	
					Band 2	18.30 - 19.30	13 V / 22 kHz	
	Band 2	19.20 - 20.20	18 V		Band 3	19.30 - 20.30	18 V	
	Band 1	19.20 - 20.20	13 V	1000	Band 1	18.20 - 19.20	13 V	
D			1200	D	Band 2	19.20 - 20.20	13 V / 22 kHz	
	Band 2	Band 2 20.20 - 21.20 18 V		Band 3	20.20 - 21.20	18 V		
E	Band 1	17.20 - 18.20	13 V	E	Band 1	17.50 - 18.50	13 V	
	P. I.O.	17 50 10 50	1011		Band 2	18.20 - 19.20	13 V / 22 kHz	
	Band 2	17.50 - 18.50	18 V		Band 3	19.20 - 20.20	18 V	
		Quad Band				Five Band		
Band	RF Freq. (GHz)		Voltage/Tone	Band	RF Freq. (GHz)		Voltage/Tone	
Α -	Band 1	17.20 - 18.20	13 V	_	Band 1	17.20 - 18.20	13 V	
	Band 2	18.20 - 19.20	13 V / 22 kHz					
	Band 3	19.20 - 20.20	18 V		Band 2	18.00 - 19.00	13 V / 22 kHz	
	Band 4	20.20 - 21.20	18 V / 22 kHz	A	Band 3	18.70 - 19.70	18 V	
B -	Band 1	17.50 - 18.50	13 V		Dalid 3	10.70 - 19.70	18 V	
	Band 2	18.40 - 19.40	13 V / 22 kHz		Band 4	19.40 - 20.40	18 V / 22 kHz	
	•	Band 3	19.30 - 20.30	18 V	1	2041 51615	2007 27 1978 (1994	STREW.
	Band 4	20.20 - 21.20	18 V / 22 kHz	1	Band 5	20.30 - 21.30	24 V	



Esatcom Inc Norsat authorized distributor www.esatcom.com

ions are subject to change without notice. Final product may not be as illustrated. The information contained

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