

#### **Innovative Communication Solutions**

### 7000XUBF

#### 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: External Reference Output Connector: F: 75 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	Ext Ref
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

#### **RF SPECIFICATIONS**

Control Signal 1	
Control Signal 2	

+

13V / 22kHz Tone

13V / No Tone



# **Norsat** International Inc.

		In	novative Com	munication 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	Band)	≤ 5 dB p-p r	nax.	
Input VSWR		2.5 : 1 max.		
Output P1db		+ 5 dBm mir	٦.	
ELECTRICAL S	PECIFICATION	IS		
Current Consumption		450 mA max	<	
Power Requirements		+12 to +24	/ DC	
INTERFACE SP	ECIFICATIONS	6		
IF Connector		F-Connecto	r	
<b>RF Input Connector</b>		WR-42 Wav	eguide Grooved	
ENVIRONMENT		TIONS		
Humidity		0 - 100%		
IP Rating		IP 66		
Temperature Operational	I	-40°C to +7	D°C	
Temperature Storage		-45 to +80°0	C	
PHYSICAL SPE	CIFICATIONS			
Product Height		1.70 in		
Product Length		4.67 in		
Product Weight		0.4 kg		
Product Width		1.72 in		
LOGISTICS SP	ECIFICATIONS	i -		
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

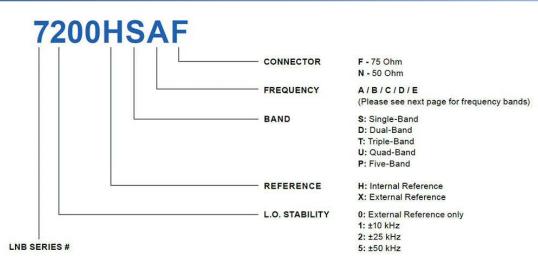
#### **HOW TO ORDER**



Norsat International Inc.

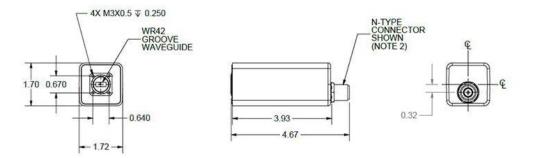


#### **Innovative Communication Solutions**



#### **MECHANICAL DIAGRAMS**









## Norsat

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		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 –		- The second sec	Production (	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
			0200		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		Band 1	17.90 - 18.30	13 V
				С	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	20.20 - 21.20	18 V		Band 3	20.20 - 21.20	18 V
	Band 1	17.20 - 18.20	13 V	E	Band 1	17.50 - 18.50	13 V
E	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	RI	F Freq. (GHz)	Voltage/Tone	Band	RI	F Freq. (GHz)	Voltage/Tone
A -	Band 1	17.20 - 18.20	13 V	A	Band 1	17.20 - 18.20	13 V
	Band 2	18.20 - 19.20	13 V / 22 kHz				Sector Market
	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		Band 3	18,70 - 19,70	18 V
-	Band 1	17.50 - 18.50	13 V		Dand 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
в	Band 3	19.30 - 20.30	18 V		1 (AL) (AL)	2007 27 1978 (1994	00000
	Band 4	20.20 - 21.20	18 V / 22 kHz		Band 5	20.30 - 21.30	24 V



Esatcom Inc Norsat authorized distributor www.esatcom.com

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

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