

## **Innovative Communication Solutions**

## 7000XTCN

## 7000 Triple-Band Ka-Band PLL LNB

Frequency: C: 17.90 - 18.30 GHz | 18.30 - 19.30 GHz | 19.30 - 20.30 GHz L.O. Stability: External Reference Output Connector: N: 50 Ohm

CE 🖌





## **KEY SPECIFICATIONS**

Band	Ka-Band
Input Frequency Band 1	17.90 - 18.30 GHz
Input Frequency Band 2	18.30 - 19.30 GHz
Input Frequency Band 3	19.30 - 20.30 GHz
LO Frequency 1	16.95 GHz
LO Frequency 2	17.35 GHz
LO Frequency 3	18.35 GHz
LO Stability	Ext Ref
LO Туре	PLL
Noise Figure Max	1.5 dB
Noise Figure Typ	1.3 dB
Number Of Onboard Los	Triple-Band
Output Frequency Band 1	950 - 1350 MHz
Output Frequency Band 2	950 - 1950 MHz
Output Frequency Band 3	950 - 1950 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





			Innovative Comr	<b>munication Solutio</b>	
Conversion Gain Typ			60 dB		
Gain Flatness (over Full Ba	und)		≤ 5 dB p-p max.		
Input VSWR			2.5 : 1 max.		
Output P1db			+ 5 dBm min.		
ELECTRICAL SP	ECIFICATION	NS			
Current Consumption			450 mA max		
Power Requirements			+12 to +24V DC		
INTERFACE SPE	CIFICATIONS	5			
IF Connector			N-Connector		
RF Input Connector			WR-42 Waveguide Grooved		
ENVIRONMENTA	AL SPECIFICA	TIONS			
Humidity			0 - 100%		
IP Rating			IP 66		
Temperature Operational			-40°C to +70°C		
Temperature Storage			-45 to +80°C		
PHYSICAL SPEC	CIFICATIONS				
Product Height			1.70 in		
Product Length			4.67 in		
Product Weight			0.4 kg		
Product Width			1.72 in		
	CIFICATIONS	j			
HS Code	Country of Origin	Ex Works	ECCN Number	Unit Package	

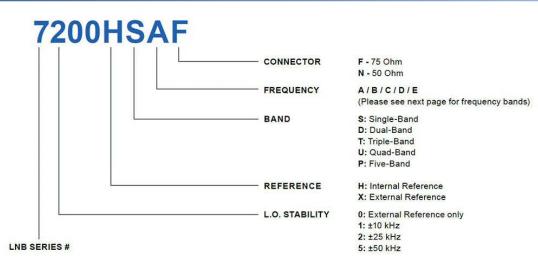
HS Code	Country of Origin	Ex Works	ECCN Number	Unit Package
	Made in Canada	Richmond, BC, Canada	EAR99	135 mm x 68 mm x 48 mm   0.48 kg

## HOW TO ORDER



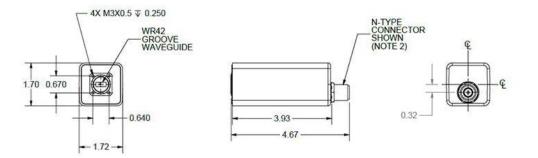


#### **Innovative Communication Solutions**



## **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		- 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
	Band 1	18.20 - 19.20	13 V	~ .	Band 1	17.70 - 18.70	13 V
в			0200	В	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
				- C	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	D	Band 1	18.20 - 19.20	13 V
D			1200		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		Band 1	17.50 - 18.50	13 V
E	P. I.O.	17 50 10 50	1011	E	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
	Band 1	17.20 - 18.20	13 V	-	Band 1	17.20 - 18.20	13 V
A	Band 2	18.20 - 19.20	13 V / 22 kHz				
B	A	Band 3	19.20 - 20.20	18 V		Band 2	18.00 - 19.00
	Band 4	20.20 - 21.20	18 V / 22 kHz	A	Band 3	18,70 - 19,70	18 V
	Band 1	17.50 - 18.50	13 V		Darid 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 (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

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

Tel 718.799.0084 Email sales@esatcom.com