

Innovative Communication Solutions

7500HPAF

7000 Five-Band Ka-Band PLL LNB

Frequency: A: 17.20 - 18.20 GHz | 18.00 - 19.00 GHz | 18.70 - 19.70 GHz | 19.40 - 20.40 GHz | 20.30 -21.30 GHz L.O. Stability: +/- 50 kHz Output Connector: F: 75 Ohm



KEY SPECIFICATIONS

Band	Ka-Band
Input Frequency Band 1	17.20 - 18.20 GHz
Input Frequency Band 2	18.00 - 19.00 GHz
Input Frequency Band 3	18.70 - 19.70 GHz
Input Frequency Band 4	19.40 - 20.40 GHz
Input Frequency Band 5	20.30 - 21.30 GHz
LO Frequency 1	16.25 GHz
LO Frequency 2	17.05 GHz
LO Frequency 3	17.75 GHz
LO Frequency 4	18.45 GHz
LO Stability	±50 kHz
LO Туре	PLL
Noise Figure Max	1.5 dB
Noise Figure Typ	1.3 dB
Number Of Onboard Los	Five-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

13V / No Tone



Norsat International Inc.



International Inc.

		1	nnovative Com	nunication Solutions		
Control Signal 2		13V / 22k	Hz Tone			
Control Signal 3		18V / No	Tone			
Control Signal 4		18V / 22k	Hz Tone			
Control Signal 5		24V / No	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 max.			
Input VSWR		2.5 : 1 ma	ax.			
Output P1db		+ 5 dBm i	min.			
Phase Noise 0.1khz Offs	et Max	-125 dBc/	Hz max.			
ELECTRICAL S	SPECIFICATION	S				
Current Consumption		450 mA n	nax			
Power Requirements		+12 to +2	+12 to +24V DC			
INTERFACE SP	PECIFICATIONS					
IF Connector		F-Connec	tor			
RF Input Connector		WR-42 W	aveguide Grooved			
ENVIRONMEN	TAL SPECIFICA	TIONS				
Humidity		0 - 100%				
IP Rating		IP 66				
Temperature Operationa	I	-40°C to -	+70°C			
Temperature Storage		-45 to +80	0°C			
PHYSICAL SPE	ECIFICATIONS					
Product Height		1.70 in				
Product Length		4.67 in				
Product Weight		0.4 kg				
Product Width		1.72 in				
LOGISTICS SP	ECIFICATIONS					
HS Code	Country of Origin	Ex Works	ECCN Number	Unit Package		
	Made in Canada	Richmond, BC, Canada	a EAR99	135 mm x 68 mm x 48		

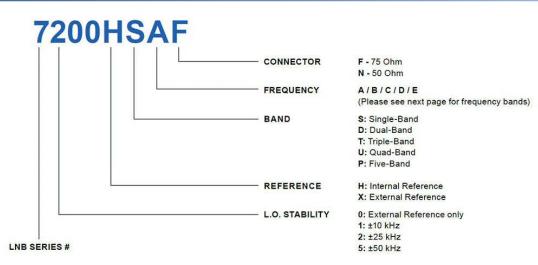
HOW TO ORDER



mm | 0.48 kg

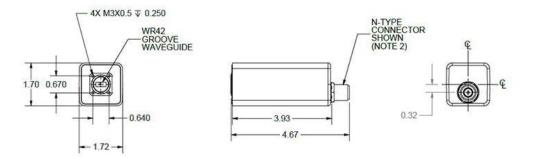


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MECHANICAL DIAGRAMS









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	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
			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
c	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	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	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				and the second second
	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		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
	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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