

# **7500HTDF**

## 7000 Triple-Band Ka-Band PLL LNB

Frequency: D: 18.20 - 19.20 GHz | 19.20 - 20.20 GHz |

20.20 - 21.20 GHz

L.O. Stability: +/- 50 kHz
Output Connector: F: 75 Ohm









#### **KEY SPECIFICATIONS**

Band Ka-Band Input Frequency Band 1 18.20 - 19.20 GHz 19.20 - 20.20 GHz **Input Frequency Band 2** 20.20 - 21.20 GHz **Input Frequency Band 3** 17.25 GHz LO Frequency 1 18.25 GHz LO Frequency 2 LO Frequency 3 19.25 GHz ±50 kHz LO Stability LO Type PLL **Noise Figure Max** 1.5 dB Noise Figure Typ 1.3 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 - 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





Conversion Gain Typ 60 dB

Gain Flatness (over Full Band)≤ 5 dB p-p max.Input VSWR2.5:1 max.Output P1db+ 5 dBm min.

#### **ELECTRICAL SPECIFICATIONS**

Current Consumption 450 mA max

Power Requirements +12 to +24V DC

#### INTERFACE SPECIFICATIONS

IF Connector F-Connector

RF Input Connector WR-42 Waveguide Grooved

#### **ENVIRONMENTAL SPECIFICATIONS**

Humidity 0 - 100%
IP Rating IP 66

Temperature Operational -40 °C to +70 °C

Temperature Storage -45 to +80 °C

#### PHYSICAL SPECIFICATIONS

Product Height1.70 inProduct Length4.67 inProduct Weight0.4 kgProduct Width1.72 in

### **LOGISTICS SPECIFICATIONS**

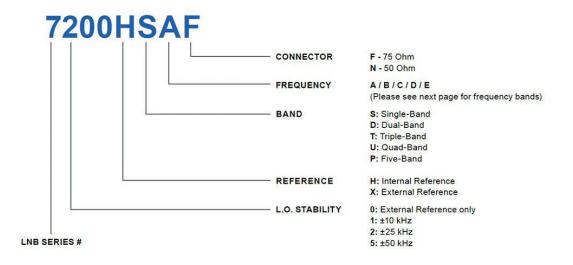
HS Code Country of Origin Ex Works ECCN Number Unit Package

Made in Canada Richmond, BC, Canada EAR99 135 mm x 68 mm x 48 mm | 0.48 kg

#### **HOW TO ORDER**

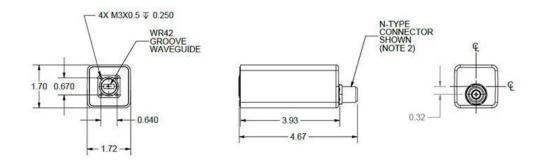






#### **MECHANICAL DIAGRAMS**







Dual Band				Triple Band			
Band	RI	F freq. (GHz)	Voltage/Tone	Band	RF Freq. (GHz)		Voltage/Tone
A	Band 1	17.75 - 18.75	13 V	A	Band 1	17.70 - 18.70	13 V
		FEGUNDAMON MERIPAMENTATO	Part of		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
	2/ 2/2	50/04/ S0/04	92 35N		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	С	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
D	Band 1	19.20 - 20.20	13 V	D	Band 1	18.20 - 19.2 <b>0</b>	13 V
	27 7757		60000k		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
E	Band 1	17.20 - 18.20	13 V	E	Band 1	17.50 - 18.50	13 V
					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
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				1000000
	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
В	Band 1	17.50 - 18.50	13 V		Dati0 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		2000 0000	200738 38980380	DROW
	Band 4	20.20 - 21.20	18 V / 22 kHz		Band 5	20.30 - 21.30	24 V





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