

# **7100HTDF**

# 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: +/- 10 kHz Output Connector: F: 75 Ohm









## **KEY SPECIFICATIONS**

Band	Ka-Band
Input Frequency Band 1	18.20 - 19.20 GHz
Input Frequency Band 2	19.20 - 20.20 GHz
Input Frequency Band 3	20.20 - 21.20 GHz
LO Frequency 1	17.25 GHz
LO Frequency 2	18.25 GHz
LO Frequency 3	19.25 GHz
LO Stability	±10 kHz
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**

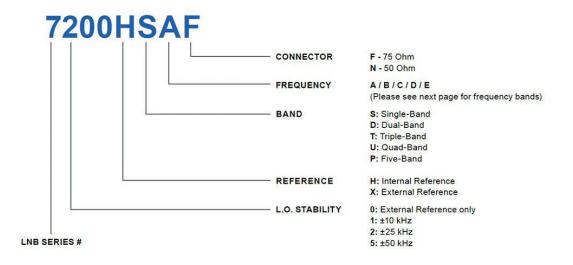
HS Code Country of Origin Ex Works ECCN Number Unit Package

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

#### **HOW TO ORDER**

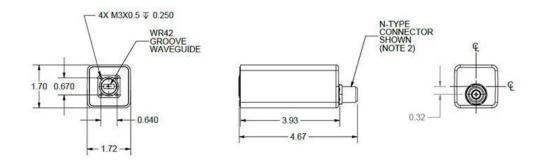






#### **MECHANICAL DIAGRAMS**







Dual Band				Triple Band				
Band	RF freq. (GHz)		Voltage/Tone	Band	RF Freq. (GHz)		Voltage/Tone	
	Band 1	17.75 - 18.75	13 V		Band 1	17.70 - 18.70	13 V	
A		- Table Committee Committe	Philipson Co.	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	-	Band 1	17.70 - 18.70	13 V
		20/20/ 20/22	12.72	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	
C	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	
	Band 1	19.20 - 20.20	13 V	D	Band 1	18.20 - 19.2 <b>0</b>	13 V	
D	2 72	726/02 40/02)	02507		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 10	47.50 40.50	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	
	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				V-1-2-1-1	
	A	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	^ A	Datid 3	10.70 - 19.70	18 V	
В	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		1 100 mm	200 N SEA 250	25000
	Band 4	20.20 - 21.20	18 V / 22 kHz		Band 5	20.30 - 21.30	24 V	



