

# **Innovative Communication Solutions**

# **7100HDBN**

#### 7000 Dual-Band Ka-Band PLL LNB

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

L.O. Stability: +/- 10 kHz Output Connector: N: 50 Ohm









#### **KEY SPECIFICATIONS**

Band Ka-Band Input Frequency Band 1 18.20 - 19.20 GHz **Input Frequency Band 2** 19.20 - 20.20 GHz 17.25 GHz LO Frequency 1 18.25 GHz LO Frequency 2 ±10 kHz LO Stability PLL LO Type 1.5 dB **Noise Figure Max Noise Figure Typ** 1.3 dB **Number Of Onboard Los** Dual-Band

950 - 1950 MHz

950 - 1950 MHz

22 kHz ± 4 kHz

+ 5 dBm min.

**RF SPECIFICATIONS** 

Output Frequency Band 1

**Output Frequency Band 2** 

Tone Frequency

Control Signal 1 13V / No Tone Control Signal 2 18V / No Tone **Conversion Gain Max** 65 dB **Conversion Gain Min** 55 dB **Conversion Gain Typ** 60 dB Gain Flatness (over Full Band)  $\leq$  5 dB p-p max. Input VSWR 2.5 : 1 max.



**Output P1db** 



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#### **ELECTRICAL SPECIFICATIONS**

Current Consumption 450 mA max

Power Requirements +12 to +24V DC

#### INTERFACE SPECIFICATIONS

IF Connector N-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

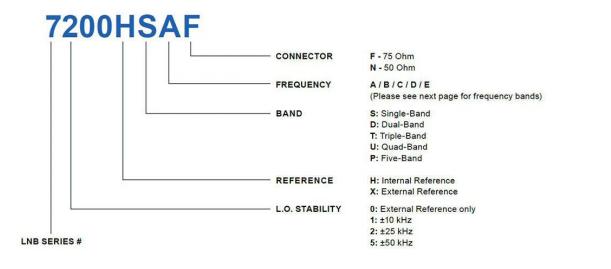
# **PHYSICAL SPECIFICATIONS**

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**



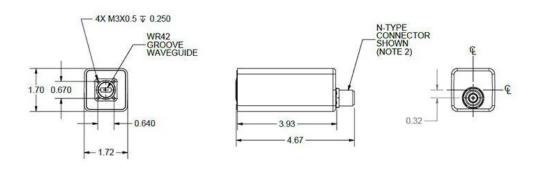
## **MECHANICAL DIAGRAMS**





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		Dual Band		Triple Band				
Band	RF 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	
		Tacantario Marianario D	Producto		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	
	D 10	10.00	12.11		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		Band 1	18.20 - 19.20	13 V	
	2 72	7.46 (0.21 4.5) (0.21)	02507	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	
E	Band 1	17.20 - 18.20	13 V		Band 1	17.50 - 18.50	13 V	
				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	RF Freq. (GHz)		Voltage/Tone	Band	RF Freq. (GHz)		Voltage/Tone	
A	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	A		100001100000000000000000000000000000000		
	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		Dail0 3	10.70 - 19.70	10 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		724 SAF	WAS NOT THE WORLD		
	Band 4	20.20 - 21.20	18 V / 22 kHz		Band 5	20.30 - 21.30	24 V	



