

# **7200HPAF**

### 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: +/- 25 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	±25 kHz
LO Type	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





Control Signal 2 13V / 22kHz Tone

Control Signal 3 18V / No Tone

Control Signal 4 18V / 22kHz Tone

Control Signal 5 24V / No Tone

Conversion Gain Max65 dBConversion Gain Min55 dB

Conversion Gain Typ 60 dB

**Gain Flatness (over Full Band)**  $\leq 5 \text{ dB p-p max}.$ 

**Input VSWR** 2.5 : 1 max.

Output P1db + 5 dBm min.

Phase Noise 0.1khz Offset Max -125 dBc/Hz max.

## **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 Height 1.70 in

Product Length4.67 inProduct Weight0.4 kg

**Product Width** 1.72 in

### **LOGISTICS SPECIFICATIONS**

HS Code Country of Origin Ex Works ECCN Number Unit Package

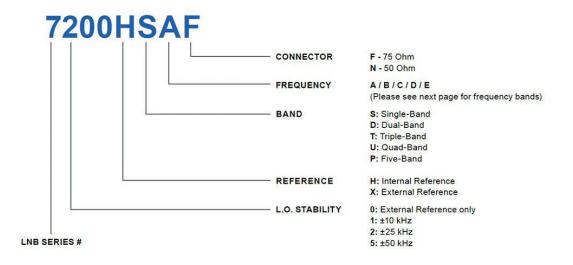
Made in Canada Richmond, BC, Canada EAR99 135 mm x 68 mm x 48

mm | 0.48 kg

#### **HOW TO ORDER**

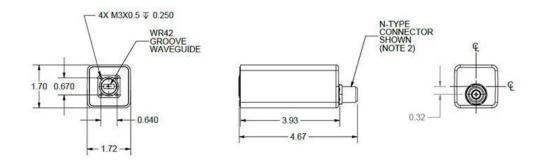






#### **MECHANICAL DIAGRAMS**







Dual Band				Triple Band				
Band	RI	F freq. (GHz)	Voltage/Tone	Band	RI	F Freq. (GHz)	Voltage/Tone	
A	Band 1	17.75 - 18.75	13 V	A	Band 1	17.70 - 18.70	13 V	
		FELLONDARIOS MERIPINARIOS	Brahama		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	
		95.000 90000	1217		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	
	20 720	7000000 0000000 70000000 0000000	02327		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	
			4		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	
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	Α				
	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		V21 101	2002 BEN 350	2000
	Band 4	20.20 - 21.20	18 V / 22 kHz		Band 5	20.30 - 21.30	24 V	



