

7100HTAF

7000 Triple-Band Ka-Band PLL LNB

Frequency: A: 17.70 - 18.70 GHz | 18.45 - 19.45 GHz |

19.20 - 20.20 GHz

L.O. Stability: +/- 10 kHz Output Connector: F: 75 Ohm









KEY SPECIFICATIONS

Band Ka-Band Input Frequency Band 1 17.70 - 18.70 GHz 18.45 - 19.45 GHz **Input Frequency Band 2** 19.20 - 20.20 GHz **Input Frequency Band 3** 16.75 GHz LO Frequency 1 17.50 GHz LO Frequency 2 LO Frequency 3 18.25 GHz ±10 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 113V / No ToneControl Signal 213V / 22kHz ToneControl Signal 318V / No ToneConversion Gain Max65 dBConversion Gain Min55 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

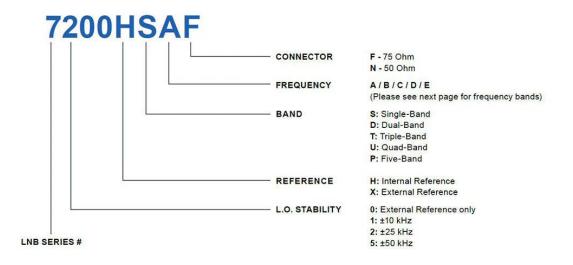
HS Code Country of Origin Ex Works ECCN Number Unit Package

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

HOW TO ORDER

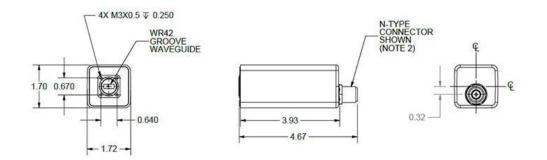






MECHANICAL DIAGRAMS







Dual Band				Triple Band			
Band	RF freq. (GHz)		Voltage/Tone	Band	RF Freq. (GHz)		Voltage/Tone
A	Band 1	17.75 - 18.75	13 V	A	Band 1	17.70 - 18.70	13 V
		FEGUNDAMON MERIPAMENTATO	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 0	13 V
	20 720	7000000 4000000 7000000 4000000	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	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				100 700 700
	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





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