

Innovative Communication Solutions

7100HDAF

7000 Dual-Band Ka-Band PLL LNB

Frequency: A: 17.75 - 18.75 GHz | 18.35 - 19.35 GHz

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









KEY SPECIFICATIONS

Band Ka-Band Input Frequency Band 1 17.75 - 18.75 GHz **Input Frequency Band 2** 18.35 - 19.35 GHz 16.80 GHz LO Frequency 1 17.40 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 Output Frequency Band 1 950 - 1950 MHz **Output Frequency Band 2** 950 - 1950 MHz

22 kHz ± 4 kHz

RF SPECIFICATIONS

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** + 5 dBm min.





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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 $-40^{\circ}\text{C to } +70^{\circ}\text{C}$ Temperature Storage $-45 \text{ to } +80^{\circ}\text{C}$

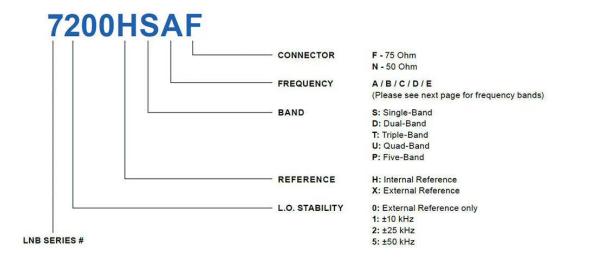
PHYSICAL SPECIFICATIONS

Product Height 1.70 in
Product Length 4.67 in
Product Weight 0.4 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



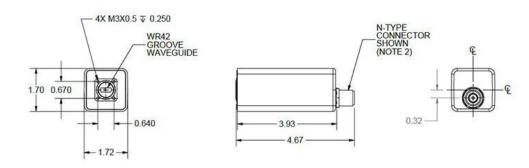
MECHANICAL DIAGRAMS





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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		
	-	Tables Names	Serve .		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		
	Band 2	20000 20000	18 V	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		
С	Band 1	18.40 - 19.40	13 V	С	Band 1	17.90 - 18.30	13 V		
		40.00			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 - 19.20	13 V		
	- 1-	720000 MOVED	2232		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		
	D. I	47.50 40.50	101/		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		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	1999 V CONT - 11.50 - 14.00 FB	655500		
	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		Deed 0	40.70 40.70	18 V		
В	Band 1	17.50 - 18.50	13 V		Band 3	18.70 - 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		2002 6503	200737-35287350	28500		
	Band 4	20.20 - 21.20	18 V / 22 kHz		Band 5	20.30 - 21.30	24 V		



