

Innovative Communication Solutions

7100HDDF

7000 Dual-Band Ka-Band PLL LNB

Frequency: D: 19.20 - 20.20 GHz | 20.20 - 21.20 GHz

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



Band







KEY SPECIFICATIONS

Input Frequency Band 1 19.20 - 20.20 GHz **Input Frequency Band 2** 20.20 - 21.20 GHz 18.25 GHz LO Frequency 1

Ka-Band

19.25 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

Output Frequency Band 1 950 - 1950 MHz **Output Frequency Band 2** 950 - 1950 MHz Tone Frequency 22 kHz ± 4 kHz

RF SPECIFICATIONS

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 $-45 \text{ to } +80^{\circ}\text{C}$

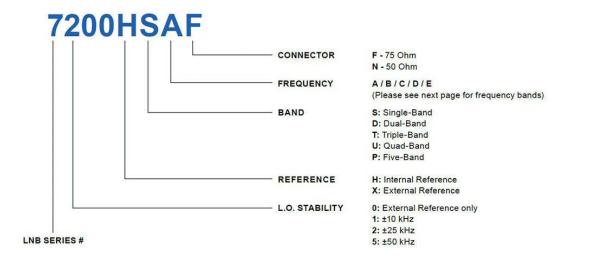
PHYSICAL SPECIFICATIONS

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



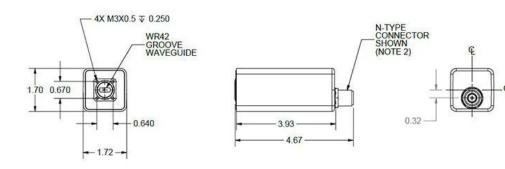
MECHANICAL DIAGRAMS





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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		Band 1	17.70 - 18.70	13 V	
	-	Tables Names	2000	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	
	2 10	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	
					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		Band 1	18.20 - 19.20	13 V	
D	988800		\$20000k	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	E	Band 1	17.50 - 18.50	13 V	
	-		7,400		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	Freq. (GHz)	Voltage/Tone	Band	RF Freq. (GHz)		Voltage/Tone	
Α -	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		XXXXXXXXXXXXXX	17000 to CONS 11.50 @-1600.000	600000000	
	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	40.1/	
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 F0000	55.0 (C. N. 190. 190. 190. 190. 190. 190. 190. 190		
	Band 4	20.20 - 21.20	18 V / 22 kHz		Band 5	20.30 - 21.30	24 V	





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