

Innovative Communication Solutions

7000XDEN

7000 Dual-Band Ka-Band PLL LNB

Frequency: E: 17.20 - 18.20 GHz | 17.50 - 18.50 GHz

L.O. Stability: External Reference Output Connector: N: 50 Ohm



Band







KEY SPECIFICATIONS

Input Frequency Band 1 17.20 - 18.20 GHz

Input Frequency Band 2 17.50 - 18.50 GHz

Ka-Band

16.25 GHz LO Frequency 1 16.55 GHz LO Frequency 2 Ext Ref 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 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

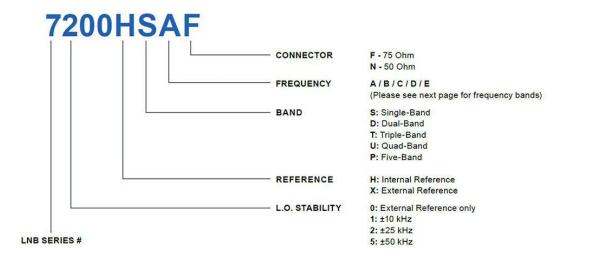
PHYSICAL SPECIFICATIONS

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

HOW TO ORDER



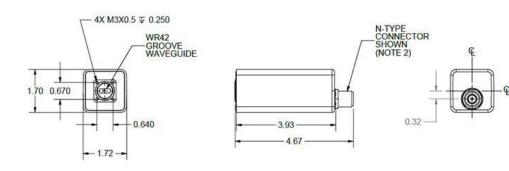
MECHANICAL DIAGRAMS





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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	Philosophi I		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	
	B 10	10.00	1011		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	0.000	Band 1	18.20 - 19.20	13 V	
	2 72	7.46 (0.21 4.5) (0.21)	9258 92597	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	
			1	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	
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			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	2000	
	Band 4	20.20 - 21.20	18 V / 22 kHz		Band 5	20.30 - 21.30	24 V	





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