

Innovative Communication Solutions

7000XDCN

7000 Dual-Band Ka-Band PLL LNB

Frequency: C: 18.40 - 19.40 GHz | 19.20 - 20.20 GHz

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



LO Type







KEY SPECIFICATIONS

Band Ka-Band Input Frequency Band 1 18.40 - 19.40 GHz

Input Frequency Band 2 19.20 - 20.20 GHz

PLL

Dual-Band

17.45 GHz LO Frequency 1 18.25 GHz LO Frequency 2

Ext Ref LO Stability

1.5 dB **Noise Figure Max**

1.3 dB

Noise Figure Typ

Output Frequency Band 1 950 - 1950 MHz

Output Frequency Band 2 950 - 1950 MHz

Tone Frequency 22 kHz ± 4 kHz

RF SPECIFICATIONS

Number Of Onboard Los

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

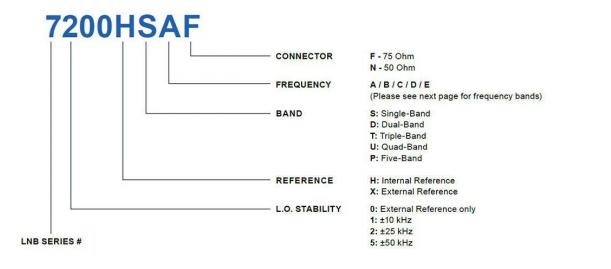
PHYSICAL SPECIFICATIONS

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 mm 0.48 kg

HOW TO ORDER



MECHANICAL DIAGRAMS

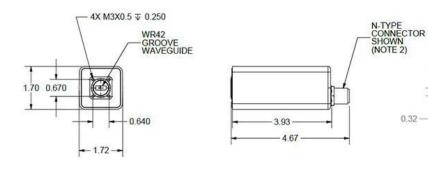




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0.32





		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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