

Innovative Communication Solutions

7000XDCF

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: F: 75 Ohm









KEY SPECIFICATIONS

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

Input Frequency Band 2 19.20 - 20.20 GHz

17.45 GHz LO Frequency 1 18.25 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 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 $-45 \text{ to } +80^{\circ}\text{C}$

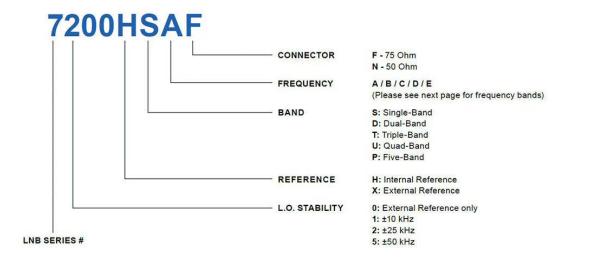
PHYSICAL SPECIFICATIONS

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



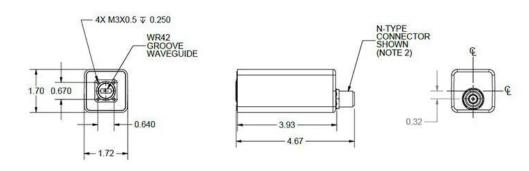
MECHANICAL DIAGRAMS





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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	Α .	Band 1	17.70 - 18.70	13 V	
		12020 00020	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	1960	Band 1	17.70 - 18.70	13 V	
	Band 2	40.00 00.00	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	19.20 - 20.20	18 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	57945	Band 1	18.20 - 19.20	13 V	
D	- 1-	10001000 0001000	2232	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	
	D10	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	F 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	2 K090 EV C0080 11.50-0-140000000	000000000	
	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	00ACS#1-9696/8896	5/80W2	
	Band 4	20.20 - 21.20	18 V / 22 kHz		Band 5	20.30 - 21.30	24 V	



