

7100HTAN

7000 Triple-Band Ka-Band PLL LNB

Frequency: A: 17.70 - 18.70 GHz | 18.45 - 19.45 GHz |

19.20 - 20.20 GHz

L.O. Stability: +/- 10 kHz Output Connector: N: 50 Ohm









KEY SPECIFICATIONS

Band	Ka-Band
Input Frequency Band 1	17.70 - 18.70 GHz
Input Frequency Band 2	18.45 - 19.45 GHz
Input Frequency Band 3	19.20 - 20.20 GHz
LO Frequency 1	16.75 GHz
LO Frequency 2	17.50 GHz
LO Frequency 3	18.25 GHz
LO Stability	±10 kHz
LO Type	PLL
LO Type Noise Figure Max	PLL 1.5 dB
•	
Noise Figure Max	1.5 dB
Noise Figure Max Noise Figure Typ	1.5 dB 1.3 dB
Noise Figure Max Noise Figure Typ Number Of Onboard Los	1.5 dB 1.3 dB Triple-Band
Noise Figure Max Noise Figure Typ Number Of Onboard Los Output Frequency Band 1	1.5 dB 1.3 dB Triple-Band 950 - 1950 MHz

RF SPECIFICATIONS

Control Signal 1	13V / No Tone
Control Signal 2	13V / 22kHz Tone
Control Signal 3	18V / No Tone
Conversion Gain Max	65 dB
Conversion Gain Min	55 dB





Conversion Gain Typ 60 dB

Gain Flatness (over Full Band)≤ 5 dB p-p max.Input VSWR2.5:1 max.Output P1db+ 5 dBm min.

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

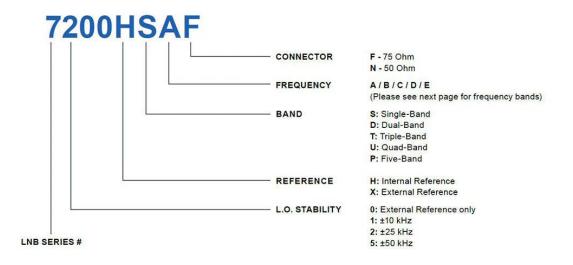
HS Code Country of Origin Ex Works ECCN Number Unit Package

Made in Canada Richmond, BC, Canada EAR99 135 mm x 68 mm x 48 mm | 0.48 kg

HOW TO ORDER

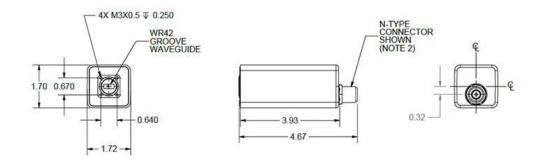






MECHANICAL DIAGRAMS







Dual Band					Triple Band			
Band	R	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
		- Table Annual Control of the Contro	Districts .	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
	В	27 (42)	50,000 S0128	22.70	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		Band 1	17.90 - 18.30	13 V
				С	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 - 19.2 0	13 V	
		7.46/20 40/20	02507		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	
	Band 2	17.50 - 18.50	18 V		Band 2	18.20 - 19.20	13 V / 22 kHz	
	Band 2	500 T. 100 T. 100 T.	18 V		Band 3	19.20 - 20.20	18 V	
	Quad Band					Five Band		
Band	RI	F Freq. (GHz)	Voltage/Tone	Band	RF Freq. (GHz)		Voltage/Tone	
A	Band 1	17.20 - 18.20	13 V		Band 1	17.20 - 18.20	13 V	
	Band 2	18.20 - 19.20	13 V / 22 kHz	-	100,000,000,000	2000 1 CON 4 1 DC 4 1 DC	883000	
	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	A	5 16	40.70 40.70	4011
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	1	A 2002 - 1002	2507010100000000000000000000000000000000	2000000 A TORONO CONTRACTOR AND CONT	
	Band 4	20.20 - 21.20	18 V / 22 kHz		Band 5	20.30 - 21.30	24 V	



