

7500HUAF

7000 Quad-Band Ka-Band PLL LNB

Frequency: A: 17.20 - 18.20 GHz | 18.20 - 19.20 GHz | 19.20 - 20.20 GHz | 20.20 - 21.20 GHz

L.O. Stability: +/- 50 kHz Output Connector: F: 75 Ohm









KEY SPECIFICATIONS

Band	Ka-Band
Input Frequency Band 1	17.20 - 18.20 GHz
Input Frequency Band 2	18.20 - 19.20 GHz
Input Frequency Band 3	19.20 - 20.20 GHz
Input Frequency Band 4	20.20 - 21.20 GHz
LO Frequency 1	16.25 GHz
LO Frequency 2	17.25 GHz
LO Frequency 3	18.25 GHz
LO Frequency 4	19.25 GHz
LO Stability	±50 kHz
LO Type	PLL
Noise Figure Max	1.5 dB
Noise Figure Typ	1.3 dB
Number Of Onboard Los	Quad-Band
Output Frequency Band 1	950 - 1950 MHz
Output Frequency Band 2	950 - 1950 MHz
Output Frequency Band 3	950 - 1950 MHz
Output Frequency Band 4	950 - 1950 MHz
Tone Frequency	22 kHz ± 4 kHz

RF SPECIFICATIONS

Control Signal 1 13V / No Tone Control Signal 2 13V / 22kHz Tone





Control Signal 3 18V / No Tone

Control Signal 4 18V / 22kHz Tone

Conversion Gain Max 65 dB

Conversion Gain Min 55 dB

Conversion Gain Typ 60 dB

Gain Flatness (over Full Band) $\leq 5 \text{ dB p-p max}.$

 Input VSWR
 2.5 : 1 max.

 Output P1db
 + 5 dBm min.

ELECTRICAL SPECIFICATIONS

Current Consumption 450 mA max

Power Requirements +12 to +24V DC

INTERFACE SPECIFICATIONS

IF Connector F-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 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

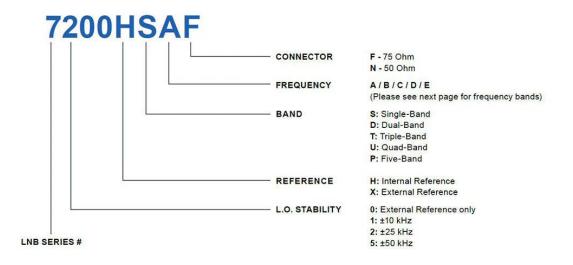
Made in Canada Richmond, BC, Canada EAR99 135 mm x 68 mm x 48

mm | 0.48 kg

HOW TO ORDER

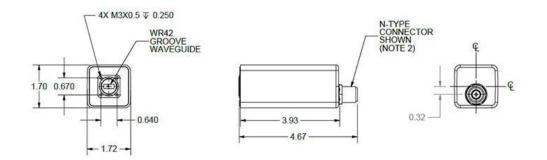






MECHANICAL DIAGRAMS







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
		- Table Committee Committe	Philipson Co.	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	В	Band 1	17.70 - 18.70	13 V
		55/20 SV222	12.72		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	D	Band 1	18.20 - 19.2 0	13 V
	2 72	726/02 49/201	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
	P 10	47.50 40.50	1011		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
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				
	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		Datid 3	10.70 - 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		1 100 mm	200 N SEA 280	25000
	Band 4	20.20 - 21.20	18 V / 22 kHz		Band 5	20.30 - 21.30	24 V





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