

2107HTFF

2000 Triple-Band Ku-Band PLL LNB (0.7 dB)

Frequency: F: 10.70 - 11.80 GHz | 10.95 - 12.10 GHz |

11.70 - 12.75 GHz

L.O. Stability: +/- 10 kHz Output Connector: F: 75 Ohm







KEY SPECIFICATIONS

Band	Ku-Band
Input Frequency Band 1	10.70 - 11.80 GHz
Input Frequency Band 2	10.95 - 12.10 GHz
Input Frequency Band 3	11.70 - 12.75 GHz
LO Frequency 1	9.75 GHz
LO Frequency 2	10.00 GHz
LO Frequency 3	10.75 GHz
LO Stability	±10 kHz
LO Type	PLL
LO Type Noise Figure Max	PLL 0.8 dB
•	
Noise Figure Max	0.8 dB
Noise Figure Max Noise Figure Typ	0.8 dB 0.7 dB
Noise Figure Max Noise Figure Typ Number Of Onboard Los	0.8 dB 0.7 dB Triple-Band
Noise Figure Max Noise Figure Typ Number Of Onboard Los Output Frequency Band 1	0.8 dB 0.7 dB Triple-Band 950 - 2050 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) ≤ 6 dB p-p Input VSWR 2.3 : 1 max. Output P1db + 5 dBm min. **Output VSWR** 2.2:1 max. -65 dBc/Hz Phase Noise 0.1khz Offset Max Phase Noise 1khz Offset Max -75 dBc/Hz Phase Noise 10khz Offset Max -80 dBc/Hz Phase Noise 100khz Offset Max -93 dBc/Hz

ELECTRICAL SPECIFICATIONS

 Current Consumption
 350 mA max

 Power Requirements
 +12 to +24V DC

INTERFACE SPECIFICATIONS

IF Connector F-Connector

RF Input Connector WR-75 waveguide grooved

ENVIRONMENTAL SPECIFICATIONS

Humidity 0 - 95%
IP Rating IP 66

Temperature Operational $-40^{\circ}\text{C to } +70^{\circ}\text{C}$ Temperature Storage $-50 \text{ to } +80^{\circ}\text{C}$

PHYSICAL SPECIFICATIONS

Product Height 1.70 in
Product Length 4.46 in
Product Weight 0.255 kg
Product Width 1.72 in

LOGISTICS SPECIFICATIONS

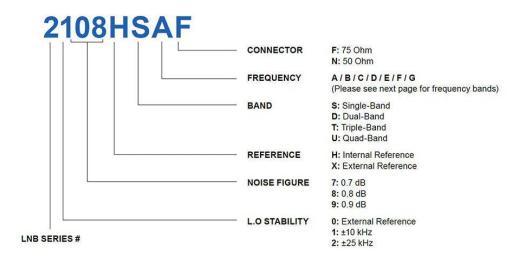
HS Code Country of Origin Ex Works ECCN Number Unit Package

Made in Canada Richmond, BC, Canada EAR99 135 x 68 x 48 mm | 0.335 kg

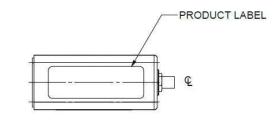
HOW TO ORDER

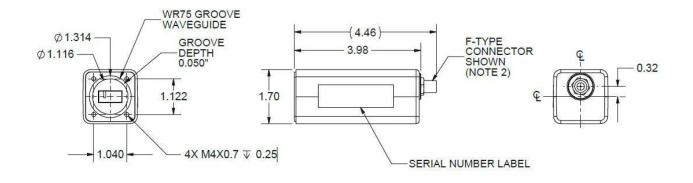






MECHANICAL DIAGRAMS







FREQUENCY BANDS

	Single Band					Dual Band					
Band	RF	freq (GHz)	L.O freq (GHz)	Output freq		Band	RF freq (GHz)		L.O freq (GHz)	Output freq	Voltage/Tone
A		1.7 - 12.20	10.75		- 1450 MHz		Band 1	10.95 - 11.70	10	950 - 1700 MHz	13 V
B C		12.25 - 12.75 10.95 - 11.70	11.3 10	950 - 1450 MHz 950 - 1700 MHz		A					
D	10.95 - 11.70		9.75	950 - 1700 MHz		-	Band 2	11.70 - 12.75	10.75	950 - 2000 MHz	18 V
			Triple Band	d ,			Band 1	10.70 - 11.70	9.75	950 - 1950 MHz	13 V
Band	I RF	freq (GHz)	L.O freq (GHz)	Output freq	Voltage/Tone	В	Dana 1	10.10 11.10	0.10	1000 11112	
	Band 1	10.95 - 11.70	10	950 - 1700 MHz	13 V	С	Band 2	11.70 - 12.75	10.75	950 - 2000 MHz	18 V
A	Band 2	11.70 - 12.20	10.75	950 - 1450 MHz	13 V / 22 kHz		Band 1	10.95 - 11.70	10	950 - 1700 MHz	13 V
	Band 3	12.20 - 12.75	11.25	950 - 1500 MHz	18 V		Band 2	12.25 - 12.75	11.3	950 - 1450 MHz	18 V
	Band 1	10.95 - 11.70	10	950 - 1700 MHz	13 V		Band 1	10.70 - 11.70	9.75	950 - 1950 MHz	13 V
В	Band 2	11.70 - 12.25	10.75	950 - 1500 MHz	13 V / 22 kHz	D	Danu I	10.70 - 11.70	5.13	930 - 1930 WH12	15 4
	Band 3	12.25 - 12.75	11.3	950 - 1450 MHz	18 V	1	Band 2	11.70 - 12.75	10.6	1100 - 2150 MHz	18 V
	Dallu 3	12.25 - 12.75	11.3	930 - 1430 MHZ	10 V				Quad Band		
	Band 1	10.70 - 11.70	9.75	950 - 1950 MHz	13 V	Band	RF	freq (GHz)	L.O freq (GHz)	Output freq	Voltage/Tone
С	Band 2	11.70 - 12.20	10.75	950 - 1450 MHz	13 V / 22 kHz		Band 1	10.70 - 11.20	9.75	950 - 1450 MHz	13 V
	Band 3	12.20 - 12.75	11.25	950 - 1500 MHz	18 V	A	Band 2	11.20 - 11.70	10.25	950 - 1450 MHz	13 V / 22 kHz
	Band 1	10.70 - 11.70	9.75	950 - 1950 MHz	13 V		Band 3	11.70 - 12.25	10.75	950 - 1500 MHz	18 V
D	Band 2	11.70 - 12.25	10.75	950-1500 MHz	13 V / 22 kHz		Band 4	12.25 - 12.75	11.3	950 - 1450 MHz	18 V / 22kHz
	Band 3	12.25 - 12.75	11.3	950-1450 MHz	18 V		Band 1	10.70 - 10.95	9.75	950 - 1200 MHz	13 V
	Dallu 3	12.25 - 12.75	11.3	950-1450 WHZ	10 V	В	Band 2	10.95 - 11.70	10	950 - 1700 MHz	13 V / 22 kHz
	Band 1	10.95 - 11.70	10	950 - 1700 MHz	13 V		Band 3	11.70 - 12.25	10.75	950 - 1500 MHz	18 V
E	Band 2	11.55 - 12.25	10.6	950 - 1650 MHz	13 V / 22 kHz		Band 4	12.25 - 12.75	11.3	950 - 1450 MHz	18 V / 22kHz
	Band 3	12.20 - 12.70	11.25	950 - 1450 MHz	18 V		Band 1	10.70 - 11.20	9.75	950 - 1450 MHz	13 V
	Band 1	10.70 - 11.80	9.75	950 - 2050 MHz	13 V	c	Band 2	11.20 - 11.70	10.25	950 - 1450 MHz	13 V / 22 kHz
F	Band 2	10.95 - 12.10	10	950 - 2100 MHz	13 V / 22 kHz		Band 3	11.70 - 12.20	10.75	950 - 1450 MHz	18 V
	Band 3	11.70 - 12.75	10.75	950 - 2000 MHz	18 V		Band 4	12.20 - 12.75	11.25	950 - 1500 MHz	18 V / 22kHz
	Band 1	10.70 - 11.70	9.75	950 - 1950 MHz	13 V	+	Band 1	10.95 - 11.45	10	950 - 1450 MHz	13 V
G	Band 2	11.70 - 12.70	10.75	950 - 1950 MHz	13 V / 22 kHz	D	Band 2	11.45 - 11.95	10.5	950 - 1450 MHz	13 V / 22 kHz
G	Danu 2	11.70 - 12.70	10.75	900 - 1900 MM2			Band 3	11.70 - 12.20	10.75	950 - 1450 MHz	18 V
	Band 3	12.25 - 12.75	11.3	950 - 1450 MHz	18 V		Band 4	12.20 - 12.75	11.25	950 - 1500 MHz	18 V / 22kHz



