



4509AN

4000A Ku-Band Single Band PLL LNB

L.O Stability: 5: ± 500 kHz

Noise Figure: 0.9 dB

Output Connector: N: 50 Ohm



KEY SPECIFICATIONS

Band	Ku-Band
Input Frequency Band 1	11.70 - 12.20 GHz
LO Frequency 1	10.75 GHz
LO Stability	± 500 kHz
LO Type	PLL
Noise Figure Max	1.0 dB
Noise Figure Typ	0.9 dB
Number Of Onboard Los	Single-Band
Output Frequency Band 1	950 - 1450 MHz

RF SPECIFICATIONS

Conversion Gain Max	70 dB
Conversion Gain Min	55 dB
Conversion Gain Typ	60 dB
Gain Flatness (over Full Band)	≤ 4 dB p-p max.
Input VSWR	2.5 : 1 max.
Output P1db	+ 2 dBm min.
Output VSWR	2.5 : 1 max.
Phase Noise 1khz Offset Max	-70 dBc/Hz
Phase Noise 10khz Offset Max	-80 dBc/Hz
Phase Noise 100khz Offset Max	-90 dBc/Hz

ELECTRICAL SPECIFICATIONS

Current Consumption	300 mA max.
Power Requirements	+15 to +24V DC

INTERFACE SPECIFICATIONS



Innovative Communication Solutions

IF Connector

N-Connector

RF Input Connector

WR-75 waveguide grooved

ENVIRONMENTAL SPECIFICATIONS

IP Rating

IP 67

Temperature Operational

-40°C to +60°C

Temperature Storage

-40 to +80°C

PHYSICAL SPECIFICATIONS

Product Height

43 mm

Product Length

85 mm

Product Weight

0.2 kg

Product Width

43 mm

LOGISTICS SPECIFICATIONS

HS Code

Country of Origin

Ex Works

ECCN Number

Unit Package

8517690000

Made in the Republic of
Korea

Richmond, BC, Canada

EAR99

110 x 55 x 50 mm | 0.2
kg

HOW TO ORDER

4107AN

CONNECTOR

F - 75 Ohm

N - 50 Ohm

FREQUENCY

A - 11.70 - 12.20 GHz

B - 12.25 - 12.75 GHz

C - 10.95 - 11.70 GHz

NOISE FIGURE

07 - 0.7 dB

08 - 0.8 dB

09 - 0.9 dB

L.O. STABILITY

1: ±150 kHz

2: ±250 kHz

5: ±500 kHz

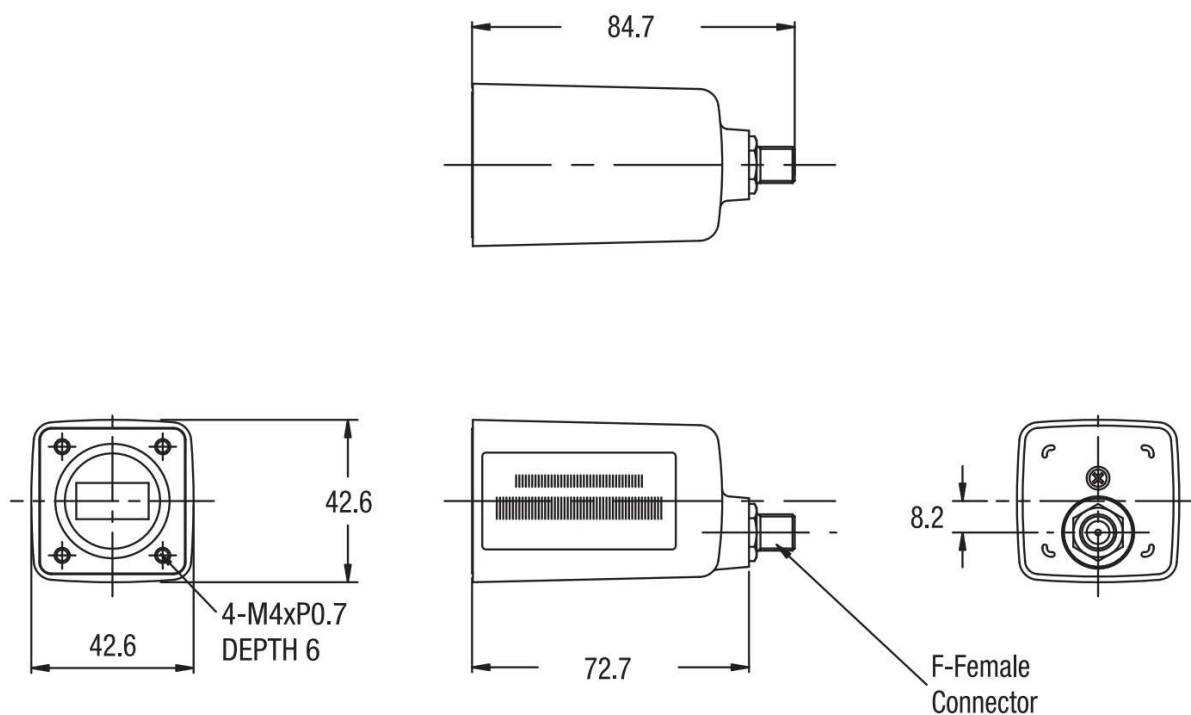
LNB SERIES #

MECHANICAL DIAGRAMS



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