

# 4107BF

## 4000B Ku-Band Single-Band PLL LNB

**L.O Stability:** 1:  $\pm 150$  kHz

**Noise Figure:** 0.7 dB

**Output Connector:** F: 75 Ohm



## KEY SPECIFICATIONS

Band	Ku-Band
Input Frequency Band 1	12.25 - 12.75 GHz
LO Frequency 1	11.30 GHz
LO Stability	$\pm 150$ kHz
LO Type	PLL
Noise Figure Max	0.8 dB
Noise Figure Typ	0.7 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)	$\leq 4$ 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

F-Connector

RF Input Connector

WR-75 waveguide grooved

## ENVIRONMENTAL SPECIFICATIONS

IP Rating

IP 67

Temperature Operational

-40 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 Korea

Richmond, BC, Canada

EAR99

110 mm x 55 mm 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

