



# 3120F

## 3000 C-Band Single Band PLL LNB

L.O. Stability: 1:  $\pm 5$  kHz

Noise Figure: 20 K

Output Connector: F: 75 Ohm



## KEY SPECIFICATIONS

|                         |                 |
|-------------------------|-----------------|
| Band                    | C-Band          |
| Input Frequency Band 1  | 3.40 - 4.20 GHz |
| LO Frequency 1          | 5.15 GHz        |
| LO Stability            | $\pm 5$ kHz     |
| LO Type                 | PLL             |
| Noise Figure Max        | 24K             |
| Noise Figure Typ        | 20K             |
| Number Of Onboard Los   | Single-Band     |
| Output Frequency Band 1 | 950 - 1750 MHz  |

## RF SPECIFICATIONS

|                                |                      |
|--------------------------------|----------------------|
| Conversion Gain Max            | 70 dB                |
| Conversion Gain Min            | 55 dB                |
| Conversion Gain Typ            | 62 dB                |
| Gain Flatness (over Full Band) | $\leq 6$ dB p-p max. |
| Input VSWR                     | 2.2 : 1 max.         |
| Output P1db                    | + 9 dBm min.         |
| Output VSWR                    | 2.5 : 1 max.         |
| Phase Noise 1khz Offset Max    | -80 dBc/Hz           |
| Phase Noise 10khz Offset Max   | -85 dBc/Hz           |
| Phase Noise 100khz Offset Max  | -95 dBc/Hz           |

## ELECTRICAL SPECIFICATIONS

|                     |                |
|---------------------|----------------|
| Current Consumption | 250 mA max.    |
| Power Requirements  | +12 to +24V DC |

## INTERFACE SPECIFICATIONS

|              |             |
|--------------|-------------|
| IF Connector | F-Connector |
|--------------|-------------|

RF Input Connector

CPR 229G waveguide grooved

### M and C SPECIFICATIONS

Led Indicators

None

### ENVIRONMENTAL SPECIFICATIONS

Temperature Operational

-40 to +60°C

Temperature Storage

-40 to +80°C

### PHYSICAL SPECIFICATIONS

Product Height

99 mm

Product Length

145 mm

Product Weight

0.5 kg

Product Width

70 mm

### LOGISTICS SPECIFICATIONS

HS Code

Country of Origin

Ex Works

ECCN Number

Unit Package

8517690000

Made in Canada

Richmond, BC, Canada

EAR99

190 x 100 x 70 mm |  
0.68 kg

### MECHANICAL DIAGRAMS

