



**Norsat**<sup>®</sup>  
International Inc.

# Data – Pro C-Band PLL LNB 3000 Series

# LNB

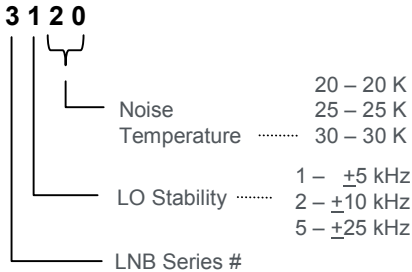


**The 3000 Series is Norsat's premium quality C-band PLL LNB, the preferred LNB for all C-band applications.**

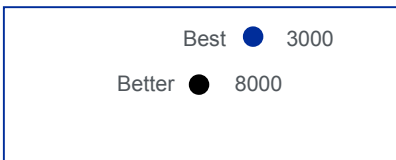
The 3000 Series is designed to provide higher performance for VSAT and select digital applications such as:

- Low data rate digital video
- A reference LNB for Rx test and service
- SCPC digital or analog audio applications
- Low speed SCPC data from 19.2 Kbps to 512 Kbps, or any higher data rate

## How to Order a 3000 Series LNB



## C-Band Series



## Norsat Advantages

- Norsat LNBs are graded by Stability and Noise Temperature to provide the perfect balance between required performance and cost
- Proven reliability for lower lifetime costs
- Best LO stability to control receiver drift and employ lower bit rates or narrower space segment
- Superior Phase Noise to lower Carrier to Noise margins, improving BER

## Norsat C-band LNB Product Line

	<b>8000</b>	<b>3000</b>
Noise Temperature	15K to 25K	20K to 30K
Input VSWR	2:1	2.2:1
LO Stability	$\pm 100$ to $\pm 500$ kHz	$\pm 5$ to $\pm 25$ kHz
Phase Noise	-65dBc/Hz @ 1kHz	-75dBc/Hz @ 1kHz

**Corporate Information** For additional information or details on Norsat's product offering, please contact us at:

North America tel (1) 800.644.4562  
 fax (1) 604.292.9100

International tel +1.604.292.9000  
 fax +1.604.292.9100

email: sales@norsat.com  
 http://www.norsat.com

# Norsat LNB 3000 Series Specifications

## Electrical Specifications

### RF Input Frequency

- 3.4 to 4.2 GHz

### Input VSWR

- 2.2 : 1 maximum

### IF Output Frequency

- 950 to 1750 MHz

### Output VSWR

- 2.2 : 1 maximum, 75 Ohms

### Gain

- 55 dB minimum
- 70 dB maximum

### Gain Flatness

- 1 dB p-p maximum per 27 MHz segment

### 1 dB Gain Compression Point

- +9 dBm minimum

### Noise Temperature

- 20K to 30K depending on model number

### Image Rejection

- 45 dB minimum

### Local Oscillator Frequency

- 5.15 GHz

### Local Oscillator Stability

- $\pm 5$  kHz to  $\pm 25$  kHz depending on model number

### Local Oscillator Leakage

- -45 dBm maximum measured at waveguide input

## Mechanical Specifications

### Input Interface

- CPR-229G Waterproof (Mated with matching flange and gasket)

### Output Interface

- F-Type, 75 Ohm, Female Waterproof

### Size

- 180 x 100 x 70 mm
- 7.1 x 4 x 2.8 in

### Weight

- 700g / 25 oz maximum

### Paint / Colour

- White, Munsell N9.5 semigloss

## Environmental Specifications

### Operating Temperature

- -30 to +55 degrees Celsius

### Relative Humidity

- Up to 100% condensation and frost

## Power Requirements

### Input DC Voltage

- +15 to 24 V supplied through centre conductor of IF cable

### Current Drain

- 350 mA typical

