

# LNB Ku PLL 11.7-12.75 GHz

## Interface:

- **Input Signals:**
  - DC Power (through F-Type connector)
  - RF Input (through waveguide input port)
- **Output Signals:** IF through F-Type connector



## Specifications:

### ELECTRICAL\*

- **Input Characteristics:**
  - Input Frequency: 11.7 to 12.75 GHz
  - Input Impedance: 50  $\Omega$
  - Input VSWR: 2.5:1 max
- **Output Characteristics:**
  - Output Frequency: 1,100 to 2,150 MHz
  - Output Impedance: 75  $\Omega$
  - Output VSWR: 2.3:1 max
- **Gain, Noise and Spurs Characteristics:**
  - Linear Gain: 55 dB Typical
  - Noise Figure at 0.8 dB Typical
  - Output P1dB: 0 dBm minimum
- **LO Characteristics:**
  - LO Frequency: 10.6 GHz
  - LO Stability: +/-25 ppm
  - Phase Noise:
    - -75 dBc/Hz typical at 1 KHz
    - -78 dBc/Hz typical at 10 KHz
    - -83 dBc/Hz typical at 100 KHz
- **DC Power Characteristics:**
  - Operational Input Voltage Range: 10-24 VDC
  - DC Current Consumption: 100 mA max

\*Specifications for "H" (High Band) setting

### PHYSICAL AND ENVIRONMENTAL

- **Dimensions:** 105 mm (L) X 45 mm (W) X 45 mm (H) max
- **Connectors:**
  - Output (IF and DC): F-Type female, environmentally sealed
  - Input: WR75G waveguide flange grooved with gasket
- **Weight:** 180g max
- **Temperature Range:**
  - -40°C to +60°C (operating)
  - -40°C to +75°C (storage)
- **Installation:** The unit is typically installed on the VSAT antenna receive port
- **Packaging:** The unit is environmentally sealed against humidity, rain, dust and sand

To learn more about SageNet's PLL Ku-band LNB for SkyEdge II and SkyEdge IIc VSAT networks, visit our website, [www.sagenet.com](http://www.sagenet.com), or call 1-866-480-2263.

## Features

- Full Ku-band coverage  
RF Frequency: 11.7 to 12.75 GHz
- Small Size & Light Weight
- Noise Figure: 0.8 dB
- LO Frequency: 10.6 GHz