

LNB Ku PLL 11.7-12.2 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 12.2 GHz
 - Input Impedance: 50 Ω
 - Input VSWR: 2.5:1 max
- **Output Characteristics:**
 - Output Frequency: 950 to 1,450 MHz
 - Output Impedance: 75 Ω
 - Output VSWR: 2.0:1 max (Sm. & Lg. Signal)
- **Gain, Noise and Spurs Characteristics:**
 - Small Signal Gain: 48 dB to 62 dB
 - Noise Figure at 25°C: 1.0 dB
 - Gain Flatness: 4 dB peak-to-peak max
 - Output P1dB: 0 dBm minimum
 - Image Rejection: 40 dB
 - LO Leakage at W/G Flange: -45dBm max
- **LO Characteristics:**
 - LO Frequency: 10.75 GHz
 - LO Stability: ± 0.6 MHz max
 - Phase Noise:
 - -55 dBc/Hz typical at 100 Hz
 - -70 dBc/Hz typical at 1 KHz
 - -70 dBc/Hz typical at 10 KHz
 - -90 dBc/Hz typical at 100 KHz
- **DC Power Characteristics:**
 - Operational Input Voltage Range: 15-24 VDC
 - DC Current Consumption: 350 mA max
 - Non-Damage Voltage Range: 0-28 VDC

PHYSICAL AND ENVIRONMENTAL

- **Dimensions:** 100 mm (L) X 40 mm (W) X 40 mm (H) max
- **Connectors:**
 - Output (IF and DC): F-Type female, environmentally sealed
 - Input: WR75G waveguide flange grooved with gasket
- **Weight:** 300g max
- **Temperature Range:**
 - -40°C to +60°C (operating)
 - -40°C to +80°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



Features

- Full Ku-band coverage
RF Frequency: 11.7 to 12.2 GHz
- Small Size & Light Weight
- Noise Figure: 1.0 dB
- LO Frequency: 10.75 GHz

To learn more about SageNet's PLL Ku-band LNB, visit our website, www.sagenet.com, or call 1-866-480-2263.