

Prime Focus LNBF Low Noise Block Down-converter

This LNB has extreme high gain and low noise to overcome weak signals. It features voltage tolerance design, high efficiency, low phase noise, weather protection, and low consumption.



Product Overview

High-Performance Prime Focus LNBF

This Prime Focus LNBF offers professional-grade signal conversion for satellite installations, supporting a wide range of input frequencies from 10.7 GHz to 12.75 GHz. Designed with a 0.4dB noise figure and a high conversion gain exceeding 70dB, it ensures reliable signal reception for both residential and commercial applications. The robust construction allows for stable operation in extreme environmental conditions, ranging from -40°C to +60°C.

Frequency Specifications

Frequency Technical Data

Parameter	Low Band	High Band
Input Frequency	10.7 ~ 11.7 GHz	11.7 ~ 12.75 GHz
Output Frequency	950 ~ 1950 MHz	1100 ~ 2150 MHz
LO Frequency	9.75 GHz	10.6 GHz

Performance Metrics

Key Performance Metrics

0.4 dB

Noise Figure

70 dB

Conversion Gain

45 dB

Image Rejection

200 mA

Max DC Consumption

Electrical Characteristics

Operating Conditions

- Vertical Voltage: 11.5 ~ 14 Vdc
- Horizontal Voltage: 16 ~ 19 Vdc
- Output VSWR: 2.0:1 @ 75 Ohm
- LO Tolerance: 1 MHz Max @ Room Temp

Environmental Ratings

Temperature Durability

Operating: -40°C to +60°C, Storage: -55°C to +80°C