

# C-Band Dual Polarity LNB

This C-Band dual polarity LNB is designed for satellite communication systems. It supports dual polarity reception, enabling the capture of both horizontal and vertical polarized signals simultaneously, while its single output simplifies connectivity.



## Overview

### High-Performance C-Band Signal Reception

This C-Band Dual Polarity LNB is engineered for high-reliability satellite communication systems. It features advanced dual-polarity reception capabilities, allowing for the simultaneous capture of both horizontal and vertical signals. With a robust design suitable for extreme environmental conditions ranging from  $-40^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$ , it ensures consistent signal quality for demanding professional applications.

## Frequency Performance

Input Frequency	3.4-4.2 GHz
L.O. Frequency	5.15 GHz
Output Frequency	950-1750 MHz

## Signal Quality

### Key Signal Metrics

<b>65 dB</b> Conversion Gain	<b>17 °K</b> Noise Figure	<b>50 dB</b> Image Rejection
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### L.O. Phase Noise

- 55 dBc/Hz @ 1KHz
- 85 dBc/Hz @ 10KHz
- 105 dBc/Hz @ 100KHz

## Technical Specifications

### Power Requirements

Parameter	Value
DC Supply Voltage (V)	11-14.5 V
DC Supply Voltage (H)	15.5-22 V
Max Supply Current	130 mA

### Connectors & Impedance

RF Input: Wave Guide WC-229, IF Output: F-Type Female, 75 Ohms Impedance

## Environmental

### Operating Conditions

$-40^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$  • 0% to 95% Humidity