

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°C to +70°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

65 dB Conversion Gain	17 °K Noise Figure	50 dB 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°C to +70°C • 0% to 95% Humidity