C-Band Dual Polarity LNBF

This low noise block downconverter is designed for receiving C-band satellite signals. It supports dual polarity operation for simultaneous reception of horizontally and vertically polarized signals, and its single output simplifies cabling.

Overview

High-Performance C-Band Reception

This C-Band Dual Polarity LNBF is engineered for professional satellite communication applications requiring reliable signal reception. Featuring a robust design with a wide operating temperature range and high conversion gain, it ensures consistent performance in demanding environmental conditions. The unit supports dual polarity operation and utilizes standard waveguide input and F-type output interfaces for seamless integration into existing satellite systems.

Key Metrics

Performance Highlights

17 °K	65 dB	5.15 GHz
Noise Figure	Conversion Gain	L.O. Frequency

Frequency Specifications

Frequency Range

Parameter	Range
Input Frequency	3.4 - 4.2 GHz
Output Frequency	950 - 1750 MHz

Electrical Specifications

DC Supply Voltage	11-14.5 V (V), 15.5-22 V (H)
Max Supply Current	130 mA
Output Impedance	75 Ohms

Environmental & Physical

Operating Temperature	-40°C to +70°C
Relative Humidity	0% - 95%

Connectivity

Interface Connectors

- RF Input: Waveguide WC-229
- IF Output: F-Type Female

Performance Details

L.O. Stability	±2 MHz (-40°C to +70°C)
Gain Flatness	±0.5 dB / 36 MHz
Image Rejection	50 dB
Cross Pol Isolation	23 dB