

C-Band Dual Polarity LNBF

C-Band dual polarity LNBF features a single output for connecting to a satellite receiver. It supports both vertical and horizontal polarities and is engineered for optimal performance in the C-band frequency range.



Overview

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This C-Band Dual Polarity Low Noise Block Feedhorn (LNBF) is a high-performance solution designed for professional satellite signal reception. It supports both vertical and horizontal polarities, ensuring broad compatibility with various satellite transmissions in the 3.4-4.2 GHz range. Engineered for durability and reliability, this unit features a low noise figure and stable local oscillator performance, making it ideal for broadcast applications and signal distribution networks.

Performance Metrics

Noise Figure

17 °K

Noise Figure

65 dB

Conversion Gain

Frequency Specifications

Parameter	Range/Value
Input Frequency	3.4-4.2 GHz
L.O. Frequency	5.15 GHz
Output Frequency	950-1750 MHz

Electrical Specifications

Power Requirements

- Vertical Polarity: 11-14.5 V
- Horizontal Polarity: 15.5-22 V
- Max Supply Current: 130 mA

Output Power	5 dBm
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Physical & Environmental

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

Connectivity

Connectors	RF Input: WC-229 Waveguide, IF Output: F-Type Female
Output Impedance	75 Ohms