

Low Noise Block Downconverter for Satellite Communication

This low noise block downconverter receives signals from a satellite and converts them to a lower frequency. It minimizes signal degradation with a low noise figure, ensuring high-quality audio and video reception.



Overview

Professional Satellite Communication LNB

The Model DP021 is a high-performance Low Noise Block Downconverter designed for reliable satellite communication reception. Engineered to operate across a wide temperature range, this unit ensures stable signal conversion from the 3.4–4.2 GHz input frequency band. It features excellent noise suppression and gain characteristics, making it an ideal choice for professional-grade satellite installations requiring high signal integrity.

Frequency Performance

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

Signal Quality

Conversion Gain

65 dB

Typical Gain

L.O. Phase Noise

Offset	Noise Level
1 KHz	-55 dBc/Hz
10 KHz	-85 dBc/Hz
100 KHz	-105 dBc/Hz

Noise Figure	13 K
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Electrical & Connectivity

Connector Types

- RF Input: Wave Guide WC-229
- IF Output: F-Type Female

DC Supply Voltage	11-14.5 V (Vertical), 15.5-22 V (Horizontal)
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Environmental & Mechanical

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