

Ku-Band Universal LNBF Low Noise Block Downconverter

This Ku-Band LNBF (Low Noise Block downconverter) is designed for satellite TV reception. Its low noise figure ensures optimal signal quality while minimizing interference.



Overview

Universal Ku-Band LNBF Performance

The GKF-L01C is a high-performance Universal Ku-Band Low Noise Block downconverter designed for reliable satellite signal reception. It features excellent noise figure characteristics and precision local oscillator stability, ensuring clear signal transmission across both low and high bands. Its robust design is built to operate reliably in a wide range of environmental conditions, making it an ideal choice for professional satellite installation systems.

Frequency and Performance

Core Performance Metrics

9.75 GHz

Low Band LO Frequency

10.6 GHz

High Band LO Frequency

0.5 MHz

LO Initial Accuracy

Noise Figure (Max)	1 dB
Minimum Conversion Gain	58 dB

Technical Specifications

LO Phase Noise Profile

Offset Frequency	Phase Noise
1 KHz	-55 dBc/Hz
10 KHz	-80 dBc/Hz
100 KHz	-90 dBc/Hz

Environmental Limits	-30°C to +60°C Operating Temperature, ±0.75MHz LO Temp Drift
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Connectivity

Interface Parameters

- Output Impedance: 75Ω (Type)
- Control Signal Ca (Vertical): 11.0 - 14.5V
- Control Signal Cb (Horizontal): 16.0 - 20.0V
- Max Power Consumption: 120mA