

Dual Polarization KU Band LNB

This KU band LNB features dual polarization for satellite communication. It has L.O. frequencies of 9.75 GHz and 10.6 GHz, with a gain of 65 dB.

Parameter	Specification	
	Low Band	High Band
Input Frequency Range	10.7-11.7GHz	11.7-12.75GHz
Output Frequency Range	950-1950MHz	1100-2100MHz
Noise Figure	0.3dB	
Conversion Gain	65dB(TYP)	
Gain Flatness	±0.5dB(270MHz)	
Cross pol Isolation	21dB(TYP)	
L.O. Frequency	9.75GHz	10.6GHz
L.O. Frequency Stability	±1MHz(MAX) @ +25°C ±1.5MHz(MAX) @ -40°C ~ +80°C	
L.O. Phase Noise	-65dBc/Hz @ 10KHz -65dBc/Hz @ 100KHz -60dBc/Hz @ 100KHz	
Gain Variation P-P	±2.5dB(MAX)	
Image Rejection	40dB(MIN)	

ADDITIONAL IMAGES



Product Overview

High-Performance Satellite Reception

This Dual Polarization KU Band Universal Single LNBF is engineered for reliable satellite communication. It features versatile frequency ranges for both low and high bands, ensuring consistent signal reception. With a robust conversion gain of 65 dB and low noise figures, this unit is designed to meet professional standards for satellite signal downconversion.

Key Performance Metrics

Conversion Gain

65 dB

Conversion Gain

0.3 dB

Noise Figure

Frequency Specifications

Frequency Bands

Parameter	Low Band	High Band
Input Frequency	10.7-11.7 GHz	11.7-12.75 GHz
Output Frequency	950-1950 MHz	1100-2150 MHz
L.O. Frequency	9.75 GHz	10.6 GHz

Technical Standards

Signal Stability & Rejection

- Gain Flatness: ± 0.5 dB/27 MHz
- Image Rejection: 40 dB (min)
- Cross-polarization Isolation: 21 dB (typ)
- Gain Variation P-P: ± 2.5 dB (max)

L.O. Frequency Stability

- ± 1 MHz (max) at $+25^{\circ}\text{C}$
- ± 1.5 MHz (max) at -40°C to $+80^{\circ}\text{C}$

L.O. Phase Noise

- -60 dBc/Hz @ 1 kHz
- -85 dBc/Hz @ 10 kHz
- -90 dBc/Hz @ 100 kHz