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## BLACK Ultra

### Twin High-Gain Low-Noise 40mm LNB

IDLB-TWNL40-ULTRA-OPP

This LNB is a high performance product featuring the lowest noise figure available to address the need for superior reception under the edges of the satellite footprint skirt. Thanks to its novel front-end architecture and superior components, this LNB provides higher conversion gain yet with lowest noise figure and best phase noise performance. The combination of higher spec components, excellent isolation and advanced filter design enables improved handling of interfering spurious and provides the leap in the overall reception performance compared with standard LNBs. This LNB enables the reception of signal from one satellite, its distribution to up-to two single tuner Set-top box (or 1 in the case of a twin-tuner STB) and is ready for High Definition transmissions. Manufactured to the highest industry quality standards and designed to meet strict specifications, this LNB is an ideal solution for the satellite broadcast reception across Europe.

High-Gain  
Low-Noise

#### Main Features

- Superior Phase Noise performance DVB-S2 (HDTV) compliant
- Excellent isolation – extremely high cross-pol performance
- Very low spurious levels
- Superior Noise Figure
- Higher conversion gain
- Ultimate reliability

## Technical Specifications

Low Band Input Frequency Range	10.7~11.7 GHz
Low Band Output Frequency Range	950~1950 MHz
LO Frequency	9.75 GHz
High Band Input Frequency Range	11.7~12.75 GHz
High Band Output Frequency Range	1100~2150 MHz
LO Frequency	10.6 GHz
Noise Figure	0.2dB typ. (0.7dB max.)
LO Initial Accuracy	+/- 1.0 MHz max.
LO Temperature Drift	+/- 3.0 MHz max.
LO Phase Noise @ 10K Hz	-90 dBc/Hz max.
Conversion Gain	60 dB min.
Gain Ripple	+/- 0.75 dB/27MHz
Gain Variation	+/- 4 dB
Image Rejection	40 dB min.
1 dB Compression Point (O/P)	0.0 dBm min.
Cross talk	23dB min.
Control Signals Ca [ V ]	11.0~14.0 V
Control Signals Cb [ H ]	16.0~20.0 V
Control Signals Cc [Band switching]	22KHz +/- 4KHz 0.4V – 0.8V pp
Output VSWR	2.0 : 1
Radiated Interference	-60 dBm max.
DC Power	180mA max. @ 11 – 20V
Working Temperature	-30~+60 °C
Output Impedance (connect to STB)	75Ω
Output connector	F-type (female)
Weight	181 g

