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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.

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

High-Gain Low-Noise

## **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 Rejection40 dB min.1 dB Compression Point (O/P)0.0 dBm min.Cross talk23dB 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.

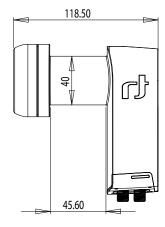
DC Power 180mA max. @ 11 – 20V

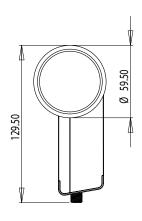
Working Temperature -30~+60 °C

Output Impedance (connect to STB) 75Ω

Output connector F-type (female)

Weight 181 g





For purpose of brevity, some product descriptions in this sheet remain at platform level and may not be referred to as detailed datasheets of the products. Inverto Digital Labs reserves the right to amend, omit or add products, product-lines, and/ or features without notice.