



Ultra

Quad High-Gain Low-Noise 40mm PLL LNB IDLT-QDL412-ULTRA-OPN

Item: 5930

Inverto's high-performance Ultra LNBs were specifically designed to address the need for superior reception under the edges of the satellite footprint skirt, small dish sizes or long coax cables. Thanks to its novel feed horn design and superior front-end components, this LNB provides higher conversion gain yet with low noise figure and best phase noise performance. The combination of innovative feed horn design, higher spec components, excellent cross polarization isolation and advanced filter design enables improved handling of interfering and spurious signals.

This LNB provides a leap in the overall reception performance compared with standard LNBs, enabling the reception of signals from one satellite, its distribution to four Set Top Boxes with Single Tuner (or two STB with Twin Tuner each) and is ready for Ultra High Definition TV transmissions in 4K or 8K resolution. Designed to meet strict specifications and manufactured to the highest industry standards, this unique range of LNBs is an ideal solution for installations with challenging reception conditions.

Main Features:

- Novel feed horn design
- Superior Phase Noise performance, DVB-S2X compliant supporting Ultra HD (4K and 8K) TV
- Excellent Cross Polarization Isolation
- Very Low Spurious Levels
- Superior Noise Figure with high Conversion Gain
- High 4G Immunity
- Ultimate Reliability









Technical data

Low band input frequency range Low band output frequency range Low band LO frequency

High band input frequency range High band output frequency range

High band LO frequency

Noise figure

LO temperature drift @ 60° C LO Initial accuracy (@ 25° C)

LO phase noise @ 1 kHz

LO phase noise @ 10 kHz

LO phase noise @ 100 kHz

LO phase noise @ 1 MHz

Conversion gain

Gain ripple (over 26 MHz bandwidth)

Gain variation (over full band)

Image rejection

3th order intermodulation - ICP3

1 dB compression point (@ output)

Cross polarization isolation

Control signal Ca (V) Control signal Cb (H)

Control signal Cc (band switching)

Output VSWR

In band spurious level Current consumption Operating temperature Output impedance Output connector

Weight

Logistical info

Packaging dimensions (W x D x H)

Packaging weight Quantity per carton

Carton dimensions (W x D x H)

Carton weight Quantity per pallet 10.7 GHz ~ 11.7 GHz

950 MHz ~ 1950 MHz

9.75 GHz

11.7 GHz ~ 12.75 GHz

1100 ~ 2150 MHz

10.6 GHz

0.2 dB typ. (0.7 dB max.)

± 2.0 MHz max.

 \pm 1.0 MHz max.

-70 dBc/Hz

-80 dBc/Hz

-90 dBc/Hz

-100 dBc/Hz

 $60 \sim 70 \text{ dB}$

1 dB max. (peak-to-peak)

4 dB max. (peak-to-peak)

50 dB min.

+10 dBm min

0 dBm min.

22 dB min.

10.0 V ~ 14.0 V

16.0 V ~ 20.0 V

 $22 \text{ kHz} \pm 4 \text{ kHz}$

2.0 : 1 max.

-65 dBm max.

200 mA max. (10 VDC ~ 20 VDC)

-30 °C ~ +60 °C

75 Ω (F-type)

x4, F-type (female)

177.4 g

14.8 cm x 8.6 cm x 5.7 cm

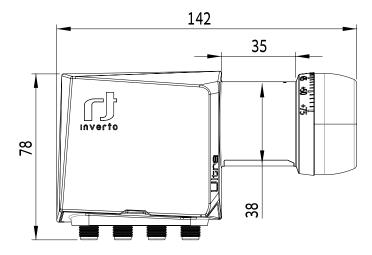
0.306 Kg

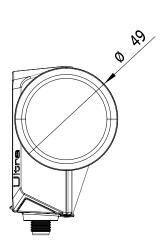
50

45 cm x 31.5 cm x 30.5 cm

11 kg

1800





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.