



## Premium

# Quattro Universal 40mm PLL LNB IDLP-QTL410-PREMU-OPN

Item: 5448

Specifically designed and selcted to address the demand of the global DTH market for a competitive and 4G/LTE protected solution, this LNB provides optimized reception capabilities using the latest chipset technology and waveguide design for satellite signal reception. The LNB enables the reception of Satellite TV and radio from one satellite and its distribution via a Multiswitch to numerous Set-top boxes. The LNB supports HD and UHD transmissions, delivers one-of-a-kind RF performances, very low power consumption and importantly engineered to mitigate interferences from 4G/LTE transmissions. Manufactured to the highest industry quality standards and engineered to meet strict specifications, this LNB is an ideal solution for the demanding customer of DTH operators and satellite broadcast reception across the world.

#### **Main Features:**

- Low Phase Noise, DVB-S2 (HD and UHD) compliant
- Very low Noise Figure
- Low power consumption
- High Cross Polarization Isolation
- High Frequency stability







#### Technical data

Input frequency range  $10.7~\mathrm{GHz} \sim 12.75~\mathrm{GHz}$  Output frequency range  $950~\mathrm{MHz} \sim 2150~\mathrm{MHz}$ 

Low band LO frequency

High band LO frequency

10.6 GHz

Noise figure 0.2 dB typ. (0.7 dB max.) LO frequency accuracy @  $25^{\circ}$  C  $\pm 500$  kHz max.

LO frequency accuracy @ 25° C  $\pm 500$  kHz max.

LO temperature drift  $\pm 1.0$  MHz max.

LO phase noise @ 10 kHz -80 dBc/Hz max.

Conversion gain 55 dB min.

Gain ripple (over 27 MHz bandwidth) ±0.6 dB
Gain variation (over full band) ±3 dB

Image rejection 40 dB min.

3th order intermodulation - ICP3 10 dBm min.

1 dB compression point (@ output) 0 dBm min.

Cross polarization isolation 22 dB min. Control signal Ca (V) 11.0  $\lor$  ~ 14.0  $\lor$  Control signal Cb (H) 16.0  $\lor$  ~ 20.0  $\lor$ 

Control signal Cc (band switching) 22 kHz  $\pm 4$  kHz, 0.4V  $\sim 0.8$ V pp

Output VSWR 2.5 : 1
In band spurious level -60 dBm max.

Current consumption 120 mA max. @ 11 VDC ~ 20 VDC

Operating temperature  $-35 \,^{\circ}\text{C} \sim +60 \,^{\circ}\text{C}$ 

Output impedance (LNB2) 75  $\Omega$ Output connector type F-type (female)

Dish F/D ratio 0.6
Weight 224 g

### Logistical info

Packaging dimensions (h x w x d) 15.5 cm x 9.1 cm x 7.6 cm

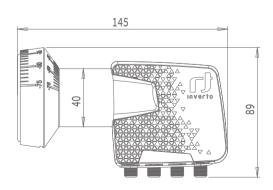
Packaging weight 0.284 kg
Quantity per carton 60 pcs

Carton dimensions (h x w x d) 64.0 cm x 47.5 cm x 25.0 cm

Carton weight 18.3 kg

Quantity per pallet 32 ctns/plt





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.