



## Premium

Twin 40mm PLL LNB **IDLP-TWL413-PREMU-OPN** 

Item: 6519

Specifically designed and selected 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. It enables the reception of satellite TV and radio from a single satellite and its distribution to two single tuner Set-top boxes (or 1 twin tuner PVR). 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 demanding customers 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

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 MHz ~ 2150 MHz

10.6 GHz

0.2 dB typ. (0.7 dB max.)

±2.0 MHz max. ±500 kHz max. -70 dBc/Hz -80 dBc/Hz -90 dBc/Hz

-100 dBc/Hz 57 dB ~ 67 dB

1 dB max. (peak-to-peak) 4 dB max. (peak-to-peak)

40 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.

150 mA max. (10 VDC ~ 20 VDC)

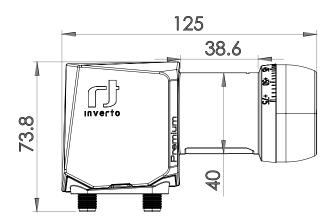
-30 °C ~ +60 °C 75 Ω (F-type) F-Type (female) 128 g

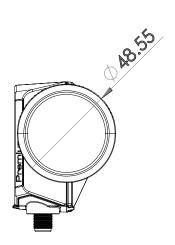
13 cm x 7.7 cm x 5.6 cm

158 g 50

40.5 cm x 27.8 cm x 30.5 cm

8.4 kg 2400





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.