



# HOME Pro

Twin Universal 40mm PLL LNB

IDLP-TWL413-HMPRO-OPX

Item: 6541

Specifically designed 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 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 excellent RF performances, very low power consumption and importantly engineered to mitigate interferences from 4G/LTE/5G transmissions. Manufactured to the highest industry quality standards and engineered to meet strict specifications, this LNB is an ideal solution for DTH operators and satellite broadcast reception across the world.

## Main Features:

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



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HsSquare  
Technology

←40→  
mm

ULN  
Low Noise  
Technology

5G

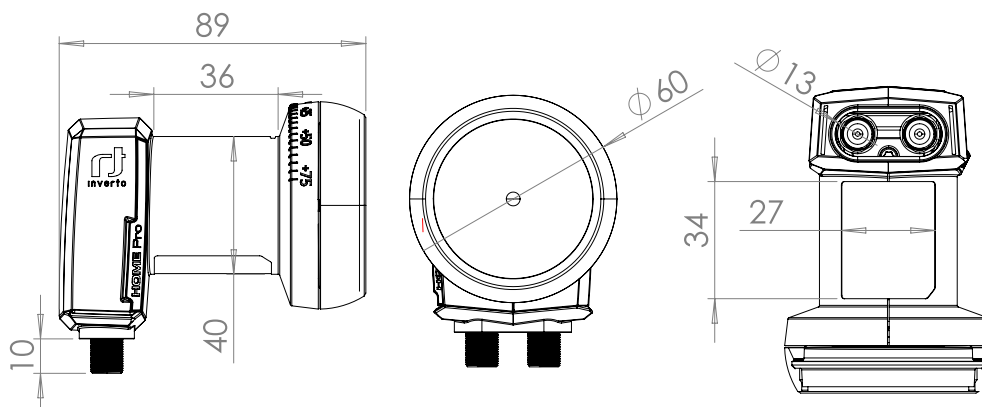
4K/8K  
Ultra HD

## Technical data

Input frequency range	10.7 GHz ~ 12.75 GHz
Output frequency range	950 MHz ~ 2150 MHz
Low band LO frequency	9.75 GHz
High band LO frequency	10.6 GHz
Noise figure	0.4 dB typ. (1dB max.)
LO frequency accuracy @ 25 °C	±500 kHz max.
LO temperature drift	±1.0 MHz max.
LO phase noise @ 1 kHz	-60 dBc/Hz max.
LO phase noise @ 10 kHz	-80 dBc/Hz max.
LO phase noise @ 100 kHz	-90 dBc/Hz max.
Conversion gain	58 ~ 65 dB
Gain ripple (over 26 MHz bandwidth)	±0.75 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 V ~ 14.0 V
Control signal Cb (H)	16.0 V ~ 20.0 V
Control signal Cc (band switching)	22 kHz ±4 kHz , 0.15 V ~ 0.35 V pp
Output VSWR	2.5 : 1
In band spurious level	-60 dBm max.
Current consumption	100 mA max. for 1 port, 175 mA max. for 2 ports
Operating temperature	-30 °C ~ +60 °C
Output impedance	75 Ω
Output connector type	F-type (female)
Dish F/D ratio	0.6
Weight	110 g

## Logistical info

Packaging dimensions (h x w x d)	13.1 cm x 8.1 cm x 7.6 cm
Packaging weight	0.182 kg
Quantity per carton	100 pcs
Carton dimensions (h x w x d)	67.5 cm x 42.5 cm x 32.5 cm
Carton weight	19.2 kg
Quantity per pallet	24 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.

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