



# ODM1

**Twin Universal 40mm PLL LNB**  
**ODM1-TWL410-00000-OPN**

Specifically designed for the OEM market 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 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
- Extractable rain protection
- Brand logo customization by mould insert
- Branded product colours
- Custom printed boxes & branded packaging

## 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	0.3 dB typ. (0.7 dB max.)
LO frequency accuracy @ 25 °C	±500 kHz max.
LO temperature drift	±1.0 MHz max.
LO phase noise @ 10 kHz	-80 dBc/Hz max.
Conversion gain	55 dB min.
Gain ripple (over 26 MHz bandwidth)	±0.75 dB
Gain variation (over full band)	±4 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 typ.
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, 0.4V ~ 0.8V pp
Output VSWR	2.5 : 1
In band spurious level	-60 dBm max.
Current consumption	120 mA max. @ 11 VDC ~ 20 VDC
Operating temperature	-30 °C ~ +60 °C
Output impedance	75 Ω
Output connector type	F-type (female)
Dish F/D ratio	0.6
Weight	202 g

