



# ODM3

## Twin Universal 40mm PLL LNB ODM3-TWL410-00000-OPN

Designed for the OEM market to address the demanding requirements of DTH operators worldwide, this LNB is highly competitive and provides outstanding reception performance using advanced microwave design and technology. The LNB supports Standard, High and Ultra High Definition transmissions, delivers excellent RF performances, very low power consumption and is designed to protect the satellite signal from 4G/LTE interferences. This LNB enables the reception of satellite TV and Radio from a single satellite and its distribution to two Set-top boxes or a twin tuner Set-top box. 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 (HDTV) compliant
- Low Noise Figure
- Low power consumption
- High Cross Polarization Isolation
- High Frequency stability [PLL]
- High immunity against 4G interferences
- Rubber boot for rain protection
- Brand logo customization by mold insert
- Branded product colors
- Custom printed boxes & branded packaging

## Technical data

Low band input frequency range	10.7 GHz ~ 11.7 GHz
Low band output frequency range	950 MHz ~ 1950 MHz
Low band LO frequency	9.75 GHz
High band input frequency range	11.7 GHz ~ 12.75 GHz
High band output frequency range	1100 MHz ~ 2150 MHz
High band LO frequency	10.6 GHz
Noise figure	0.6 dB typ. (0.9 dB max.)
LO frequency accuracy @ 25° C	±600 kHz
LO temperature drift	±1 MHz
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)	±3 dB
Image rejection	40 dB min.
3th order intermodulation - ICP3	10 dB min.
1 dB compression point (@ output)	0.0 dBm min., >3 dBm typ.
Cross polarization isolation	23 dB min., 25 dB typ.
Polarization selection - Vertical	10.0 V ~ 14.0 V
Polarization selection - Horizontal	16.0 V ~ 21.0 V
Control signal Cc (band switching)	22 kHz ±4 kHz, 0.4 V ~ 0.8 V pp
Output VSWR	2.0 : 1
In band spurious level	-60 dBm max.
Current consumption	110 mA max. @ 11 VDC ~ 20 VDC
Operating temperature	-30 °C ~ +60 °C
Output impedance	75 Ω
Output connector type	F-Type (female)
Weight	98 g

