



# ODM1

## 8 Output Universal 40mm LNB ODM1-OCT410-00000-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 8 set top boxes (or four twin tuner PVR) without the need of external multiswitch.

The LNB support 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 ~ 1950 MHz
Low band LO frequency	9.75 GHz
High band LO frequency	10.6 GHz
Noise figure	0.7 dB typ. (1 dB max.)
LO accuracy @ 25 °C	±500 kHz max.
LO temperature drift	±1.0 MHz max.
LO phase noise @ 10 kHz	-85 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 typ.
1 dB compression point (@ output)	0 dBm min.
Cross polarization isolation	22 dB min.
Control signal Ca (V)	10.0 V ~ 14.0 V
Control signal Cb (H)	16.0 V ~ 20.0 V
Control signal Cc (band switching)	22 kHz ±4 kHz
Output VSWR	2.5 : 1
In band spurious level	-60 dBm max.
Current consumption	210 mA max. @ 11 VDC ~ 20 VDC
Operating temperature	-30 °C ~ +60 °C
Output impedance (LNB2)	75 Ω
Output connector type	F-type (female)
Dish F/D ratio	0.6
Weight	265 g

