



# Mono

**Quad Monoblock 23mm LNB 6° for 80cm dish  
with 40mm adaptor 13°E (SAT A) + 19.2°E (SAT B)  
IDL-M-QDM410-MN006-8PX**

Item: 6045

Specifically designed for the European DTH markets, this Monoblock LNB allows for dual satellite reception from orbital positions 13° E and 19.2° E over a single 80cm offset satellite dish antenna with F/D = 0.6 and their distribution to up to four independent receivers.

The LNB receives satellite broadcasts with horizontal and vertical polarizations within the 10.7 ~ 12.75 GHz frequency range. It provides four universal output ports with 950 ~ 2150 MHz IF frequency range. Each output port (F-type) carries also power supply and control signals. DiSEqC 1.0 commands allow selecting the orbital satellite position. As long as no DiSEqC command has been received, the default feed is of the "Sat A" position (i.e. 13°E). Polarization (vertical/horizontal) and band (low/high) are selected using 13/18VDC and 0/22kHz control signals.

The LNB is optimized for Ultra High Definition (4K/8K) transmissions and provides excellent Cross polarization isolation, Phase Noise and Noise Figure performances. Designed to meet strict specifications and manufactured to the highest industry quality standards, this LNB is an ideal solution for satellite broadcast reception of Hotbird 13°E and Astra 19.2°E across Europe.

The LNB is supplied with a 40 mm plastic ring adaptor to allow mounting onto a standard 40mm LNB holder.

## Main Features:

- Low Phase Noise, DVB-S2 (HDTV) compliant
- Low Noise Figure
- Low Power consumption
- Very high Cross Polarization Isolation
- Very high Frequency stability

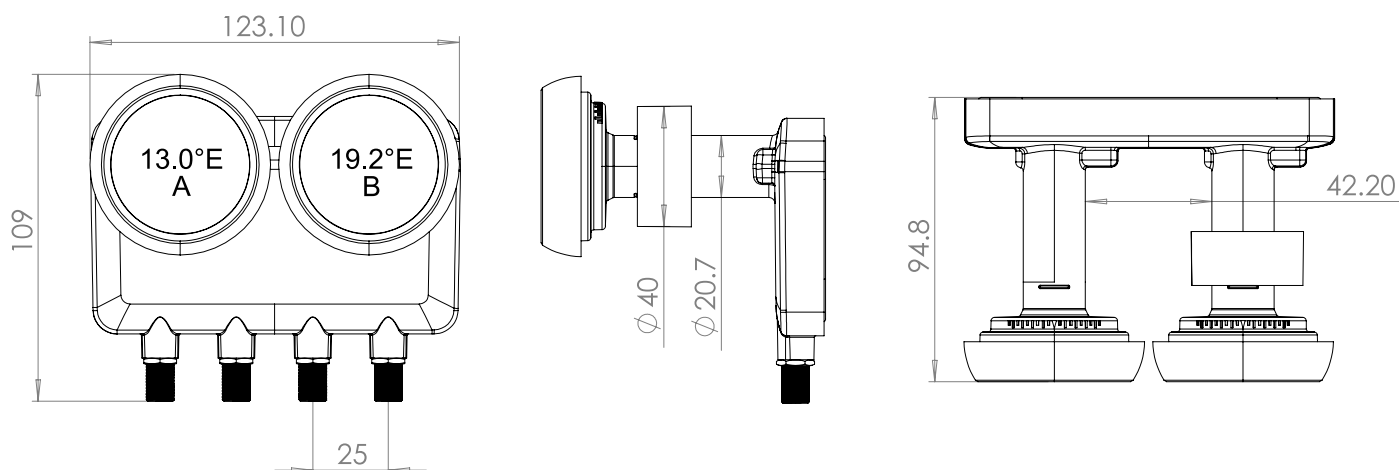


## Technical data

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., 1.0 dB max.
LO frequency accuracy @ 25° C	±0.5 MHz max.
LO temperature drift	±1 MHz max.
LO phase noise @ 1 kHz	-75 dBc/Hz
LO phase noise @ 10 kHz	-80 dBc/Hz
LO phase noise @ 100 kHz	-90 dBc/Hz
Conversion gain	55 dB ~ 65 dB
Gain ripple (over 26 MHz bandwidth)	±0.75 dB max.
Gain variation (over full band)	6 dBpp max.
Image rejection	50 dB min.
1 dB compression point (@ output)	0 dBm min.
Cross polarization isolation	22 dB min.
Control, Satellite selection	DiSEqC 1.0: Sat A* = Hotbird 13°E, Sat B = Astra 19.2°E * Default Satellite Reception
Control, Polarization and band selection	Horizontal polarization: 18 VDC Vertical polarization: 13 VDC Low band: 0 kHz High band: 22 ±4kHz 2.0 : 1 max. -65 dBm max. 180 mA max. per port (10 VDC ~ 20 VDC) -30 °C ~ +60 °C 75 Ω F-Type (female) 80 cm (F/D = 0.6) 311.6 g
Output VSWR	
In band spurious level	
Current consumption	
Operating temperature	
Output impedance	
Output connector type	
Dish size	
Weight	

### Logistical info

Packaging dimensions (h x w x d)	12,8 cm x 11,2 cm x 10,2 cm
Packaging weight	0,37 kg
Quantity per carton	30 pcs
Carton dimensions (h x w x d)	53 cm x 27 cm x 35,5 cm
Carton weight	11.7 kg
Quantity per pallet	1200 pcs



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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