

## PLL-LNB with High IP3 +25 dBm



## With Excellent Phase Noise

The PLL-LNB with High IP3 is mainly designed for applications receiving strong satellite signals in big dishes, but also in applications using a transmitter.

Except for the High IP3 +25 dBm the PLL has an excellent Phase Noise, Low Noise Figure and available either with F-, N- or SMA- output connector.

Available with an external 10 MHz reference, or with internal LO stability  $\pm 10$  or  $\pm 25$  kHz.

Options include Customized LO, Separate DC power input and Extended frequency range.

All our LNBs are individually hand tuned to get the very best performance available for each unit. Quality and long term reliability is also essential. Therefore are all LNBs tested according to a very extensive test program, which includes heating, cooling, water-proof testing and rigorous electrical testing.

Swedish Microwave (SMW) was founded 1986 and is today a leading manufacturer of professional LNBs (Low Noise Blockdownconverters) for the Ku-band market. The company is located in Motala Sweden, and to date the products are installed in more than 80 countries.

All work is in-house allowing custom-design products, short delivery times, high flexibility, quick service and support.

## Specification SMW PLL-LNB High IP3 +25 dBm

SMW PLL-LNB Frequency range LO frequency Output frequency

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Gain typ.

LO stability\*

Gain variation within 30 MHz max. Gain variation max. Noise Figure, typical LO Phase noise typical

LO radiation Image rejection

1 dB gain compression point

Input

Output (waterproof)

Input VSWR Output VSWR DC power

Operating temperature Storage temperature

**Dimensions** Weight

**Options** 

Enclosed accessories

\*  $\pm 10$  kHz within -10° to  $\pm 70$ °C  $\pm 25$  kHz within -40° to  $\pm 60$ °C

9.75 GHz 10.7 - 11.8 GHz 9.75 GHz 950 - 2050 MHz

11.7 - 12.75 GHz

1100 - 2150 MHz

12.2 - 12.75 GHz

950 - 1500 MHz

10.6 GHz

10.6 GHz

11.25 GHz

11.25 GHz

10.0 GHz 10.95 - 12.1 GHz 10.0 GHz 950 - 2100 MHz

10.678 GHz

10.678 GHz

11.3 GHz

11.3 GHz

11.7 - 12.0 GHz

1022 - 1322 MHz

12.25 - 12.75 GHz

950 - 1450 MHz

10.25 GHz 11.2 - 11.7 GHz 10.25 GHz 950 - 1450 MHz

10.75 GHz 11.7 - 12.75 GHz 10.75 GHz 950 - 2000 MHz

11.475 GHz

11.475 GHz

12.5 - 12.75 GHz

1025 - 1275 MHz

11.2 GHz 12.2 - 12.75 GHz 11.2 GHz 1000 - 1550 MHz

10.5 GHz

10.5 GHz

11.45 - 12.2 GHz

950 - 1700 MHz

±10, ±25 kHz

±0.4 dB

+4 dB

or External 10 MHz reference (see leaflet PLL ext. 10MHz ref.)

select between 54 and 60 dB

0.8 dB -75 dBc @ 1 kHz -85 dBc @ 10 kHz -100 dBc @ 100 kHz -120 dBc @ >1 MHz -60 dBm

40 dB min +15 dBm +25 dBm

WR-75 waveguide (R120) F-connector 75 ohm, N-connector 50 ohm or SMA-connector 50 ohm

2.3:1 max 2.1:1 max 12 - 24 V 270 mA typ. -40 to +80°C -40 to +80°C

122 (127 N) x 56 x 44 mm 329 g (F- & SMA-connector) 345 g (N-connector)

Separate DC power input (F, N or SMA)

Customized gain and variation

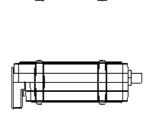
Customized LO

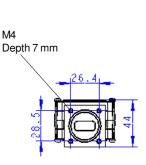
SMA-input (via transition) Extended frequency range

Screw M4 x 8 4 pcs









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