

## **SMW LNB DRO**



### ***LNB DRO - A New Light Single Band LNB***

Swedish Microwave are extending the commercial product range with a new light single band LNB in a complete new design. Main applications are Broadband via satellite, VSAT systems and commercial satellite headends.

The extremely Low phase noise ensures the lowest possible BER (Bit Error Rate). Comes standard with low noise figure, F-connector and two-year warranty. Options include N- or SMA-connector, high stability LO, customized gain or customized specification by request.

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 was founded 1986 and, within Europe, is the oldest manufacturer of LNBS. In the standard product range we have DRO-LNBS, PLL-LNBS, LNAs, Block Downconverters (BDC), Up- & Down Converters, Quattro LNBS, Twin LNBS, Ortho mode transducers (OMT), Line Amplifiers and Feed horns.

Swedish Microwave is today one of the leading manufacturers of microwave components needed for satellite receiving equipment and other industrial products.

# Specification SMW LNB DRO

SMW	LNB DRO 9.75	LNB DRO 10.0	LNB DRO 10.6	LNB DRO 10.7
Frequency range	10.7 - 11.8 GHz	10.95 - 12.1 GHz	11.7 - 12.75 GHz	11.65 - 12.75 GHz
LO frequency	9.75 GHz	10.0 GHz	10.6 GHz	10.7 GHz
Output frequency	950 - 2050 MHz	950 - 2100 MHz	1100 - 2150 MHz	950 - 2050 MHz

SMW	LNB DRO 10.75	LNB DRO 11.2	LNB DRO 11.25	LNB DRO 11.3
Frequency range	11.7 - 12.75 GHz	12.2 - 12.75 GHz	12.2 - 12.75 GHz	12.25 - 12.75 GHz
LO frequency	10.75 GHz	11.2 GHz	11.25 GHz	11.3 GHz
Output frequency	950 - 2000 MHz	1000 - 1550 MHz	950 - 1500 MHz	950 - 1450 MHz

SMW	LNB DRO 11.475
Frequency range	12.5 - 12.75 GHz
LO frequency	11.475 GHz
Output frequency	1025 - 1275 MHz

## General Specification SMW LNB DRO

Gain	54 +/- 3 dB (See option)
Gain variation	+/- 0.3 dB within 30 MHz
Noise Figure, typical	0.8 dB
LO stability (over temp.)	+/- 3 MHz
LO Phase noise typical	-75 dBc @ 1 kHz -85 dBc @ 5 kHz -95 dBc @ 10 kHz -110 dBc @ 100 kHz -120 dBc @ >1 MHz
LO radiation	-50 dBm
Image rejection	50 dB min
1 dB gain compression point	+5 dBm
Input	WR-75 waveguide
Output	F-connector 75 ohm or N-connector 50 ohm, water proof
Output VSWR	2.0:1
DC power	12 - 24 V 145 mA typ
Operating temperature	-30 to +60°C
Dimensions	122 x 56 x 44 mm
Weight	220 g (F), 236 g (N)

Options
High stability LO, +/- 1 MHz over temp.
High stability LO, +/- 1.5 MHz over temp.
High stability LO, +/- 2 MHz over temp.
Customized gain (The total gain included the dish shouldn't exceed 100 dB)
Offset LO frequency, 9.75-12.5 GHz
Low output VSWR, 1.55:1
SMA output connector

Enclosed accessories
Screw M4 x 8 4 pcs
Small M4 key

