

## **SMW LNB DRO**



### ***Low phase noise single band DRO LNB***

The extremely low phase noise ensures the lowest possible BER (Bit Error Rate). Comes standard with low noise figure and F-connector output. Options include high LO stability down to  $\pm 1$  MHz, N-connector, SMA-connector, Low output VSWR or customized gain.

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

<b>SMW</b>	<b>LNB DRO 9.75</b>	<b>LNB DRO 10.0</b>	<b>LNB DRO 10.6</b>	<b>LNB DRO 10.678</b>
Frequency range	10.7 - 11.8 GHz	10.95 - 12.1 GHz	11.7 - 12.75 GHz	11.7 - 12.0 GHz
LO frequency	9.75 GHz	10.0 GHz	10.6 GHz	10.678 GHz
Output frequency	950 - 2050 MHz	950 - 2100 MHz	1100 - 2150 MHz	1022 - 1322 MHz

<b>SMW</b>	<b>LNB DRO 10.7</b>	<b>LNB DRO 10.75</b>	<b>LNB DRO 11.2</b>	<b>LNB DRO 11.25</b>
Frequency range	11.65 - 12.75 GHz	11.7 - 12.75 GHz	12.2 - 12.75 GHz	12.2 - 12.75 GHz
LO frequency	10.7 GHz	10.75 GHz	11.2 GHz	11.25 GHz
Output frequency	950 - 2050 MHz	950 - 2000 MHz	1000 - 1550 MHz	950 - 1500 MHz

<b>SMW</b>	<b>LNB DRO 11.3</b>	<b>LNB DRO 11.475</b>
Frequency range	12.25 - 12.75 GHz	12.5 - 12.75 GHz
LO frequency	11.3 GHz	11.475 GHz
Output frequency	950 - 1450 MHz	1025 - 1275 MHz

## General specification

<b>General specification</b>	<b>SMW LNB DRO</b>
Gain typical	54 dB
Gain variation	± 3 dB within band ± 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	-60 dBm
Image rejection	50 dB min
1 dB gain compression point	+5 dBm
Input	WR-75 waveguide
Output Waterproof	F-connector 75 ohm
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)

## Enclosed accessories

O-ring  
Screw M4 x 8 4 pcs  
Small M4 key

