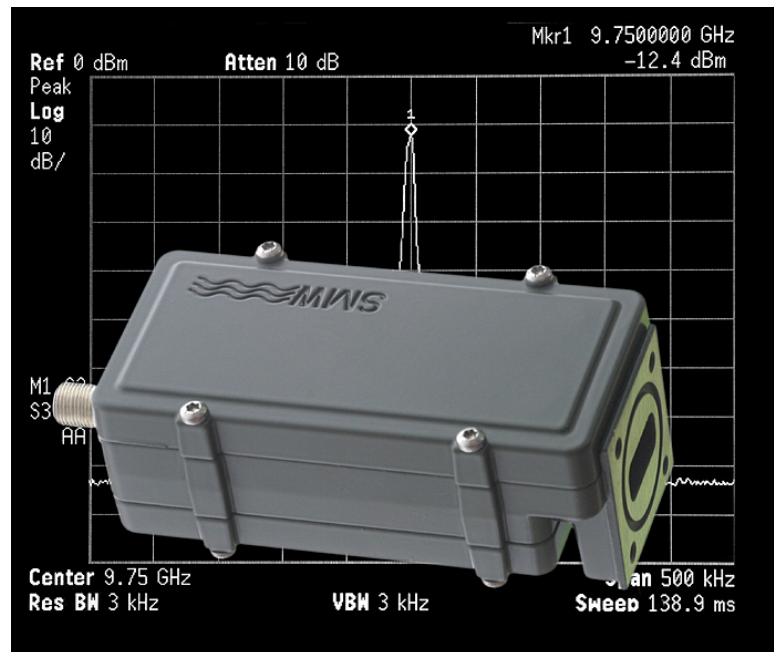


PLL-LNB - High Stability



With Excellent Phase Noise

This PLL-LNB comes standard with Excellent Phase Noise to provide very low BER in low data rate applications, but also in applications with very fast rates. F-, N- or SMA output connector, wide frequency range and low noise figure.

High LO stability from ± 10 kHz up to ± 150 kHz to limit the drift of the frequency.

Options include Customized gain, Customized LO, Separate DC power input connector 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 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.

Specification SMW PLL-High Stability

SMW PLL High Stability	11.25 GHz	11.3 GHz	11.475 GHz
Frequency range	12.2 - 12.75 GHz	12.25 - 12.75 GHz	12.5 - 12.75 GHz
LO frequency	11.25 GHz	11.3 GHz	11.475 GHz
Output frequency	950 - 1500 MHz	950 - 1450 MHz	1025 - 1275 MHz

General Specification

LO stability (over temp.) - version:	10* or ± 25 kHz
Gain typ.	54 dB
Gain variation within 30 MHz max.	± 0.4 dB
Gain variation max.	± 4 dB
Noise Figure, typical	0.8 dB
LO Phase noise typical	-75 dBc @ 1 kHz -85 dBc @ 10 kHz -110 dBc @ 100 kHz -120 dBc @ >1 MHz
LO radiation	-60 dBm
Image rejection	40 dB min
1 dB gain compression point	+5 dBm
IP3	+15 dBm
Input	WR-75 waveguide (R120)
Output (waterproof)	F-connector 75 ohm, N-connector 50 ohm or SMA-connector
Output VSWR	2.1:1 max
DC power	12 - 24 V 250 mA max
Operating temperature	-30 to +60°C
Dimensions	122 (127 N) x 56 x 44 mm
Weight	329 g (F- & SMA-connector) 345 g (N-connector)

Options	Separate DC power input (F, N or SMA) Customized gain and variation Customized LO SMA-input Extended frequency range
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Enclosed accessories	O-ring Screw M4 x 8 4 pcs Small M4 key
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* within -10° to +70°C

2005-09-26

