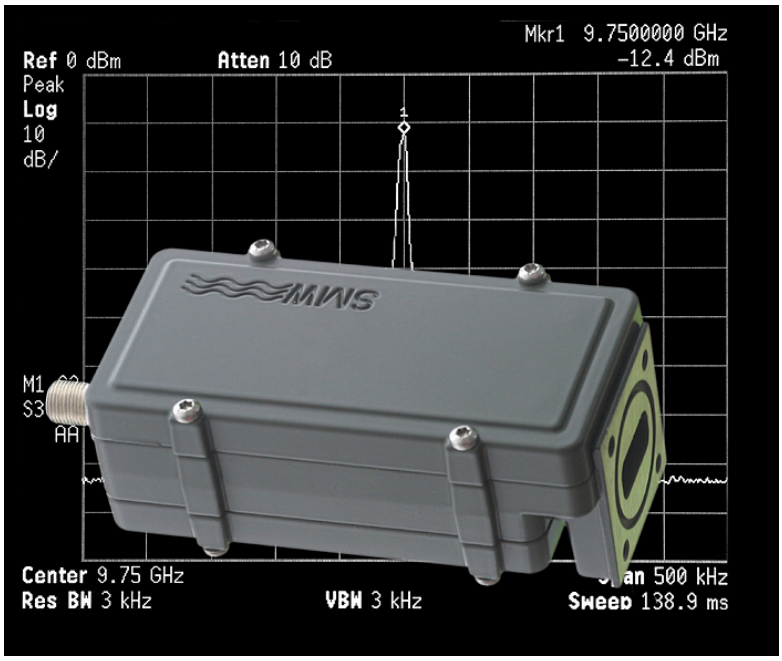
PLL-LNB - High Stability



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	***9.75 GHz***	***10.0 GHz***	***10.25 GHz***	***10.5 GHz***
Frequency range	10.7 - 11.8 GHz	10.95 - 12.1 GHz	11.2 - 11.7 GHz	11.45 - 12.2 GHz
LO frequency	9.75 GHz	10.0 GHz	10.25 GHz	10.5 GHz
Output frequency	950 - 2050 MHz	950 - 2100 MHz	950 - 1450 MHz	950 - 1700 MHz

SMW PLL High Stability	***10.6 GHz***	***10.678 GHz***	***10.75 GHz***	***11.2 GHz***
Frequency range	11.7 - 12.75 GHz	11.7 - 12.0 GHz	11.7 - 12.75 GHz	12.2 - 12.75 GHz
LO frequency	10.6 GHz	10.678 GHz	10.75 GHz	11.2 GHz
Output frequency	1100 - 2150 MHz	1022 - 1322 MHz	950 - 2000 MHz	1000 - 1550 MHz

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.)	±10*, ±25, ±100 or ±150 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
IP 3	+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)

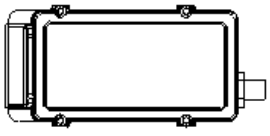
Options

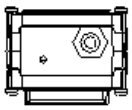
Separate DC power input (F, N or SMA)
Customized gain and variation
Customized LO
SMA-input
Extended frequency range

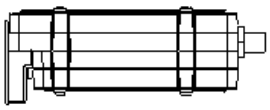
Enclosed accessories

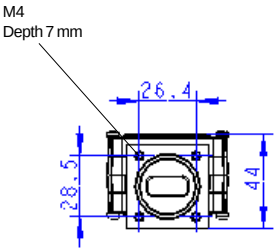
O-ring
Screw M4 x 8 4 pcs
Small M4 key

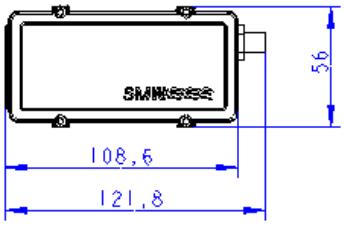
* within -10° to +70°C











SWEDISH MICROWAVE AB

Box 230
591 23 MOTALA, SWEDEN
Tel. +46 141 21 61 35
Fax. +46 141 21 52 24
e-mail: info@smw.se
Website: http://www.smw.se

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