

SMW PLL-LNBs



Low Phase Noise PLL-LNBs within the Ku-band

Comes standard with wide frequency range, low phase noise, low noise figure, F- or N-connector and two-year warranty.

An external 10 MHz reference or high stability LO +/- 10, +/- 25, +/- 100 or +/- 150 kHz, to limit the drift the frequency.

Options include customized gain, customized LO, RF-shielding, 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 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 PLL-LNB

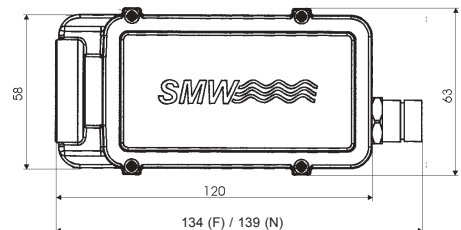
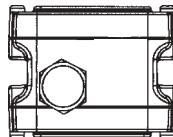
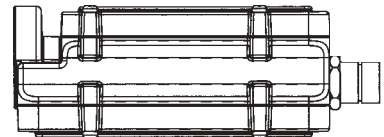
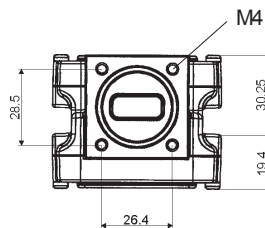
SMW PLL +/- 25 kHz (+/- 10 kHz)	9.75 GHz	10.0 GHz	10.25 GHz	10.75 GHz	11.3 GHz
Frequency range	10.7 - 11.8 GHz	10.95 - 12.1 GHz	11.2 - 11.7 GHz	11.7 - 12.75 GHz	12.25 - 12.75 GHz
LO frequency	9.75 GHz	10.0 GHz	10.25 GHz	10.75 GHz	11.3 GHz
LO stability (over temp.)	+/- 25 kHz	+/- 25 kHz	+/- 25 kHz	+/- 25 kHz	+/- 25 kHz
	Option +/- 10 kHz	+/- 10 kHz	+/- 10 kHz	+/- 10 kHz	+/- 10 kHz
Output frequency	950 - 2050 MHz	950 - 2100 MHz	950 - 1450 MHz	950 - 2000 MHz	950 - 1450 MHz

SMW PLL +/- 150 kHz (+/- 100 kHz)	9.75 GHz	10.0 GHz	10.75 GHz	11.3 GHz
Frequency range	10.7 - 11.8 GHz	10.95 - 12.1 GHz	11.7 - 12.75 GHz	12.25 - 12.75 GHz
LO frequency	9.75 GHz	10.0 GHz	10.75 GHz	11.3 GHz
LO stability (over temp.)	+/- 150 kHz	+/- 150 kHz	+/- 150 kHz	+/- 150 kHz
	Option +/- 100 kHz	+/- 100 kHz	+/- 100 kHz	+/- 100 kHz
Output frequency	950 - 2050 MHz	950 - 2100 MHz	950 - 2000 MHz	950 - 1450 MHz

General Specification

Gain	52 dB
Gain variation	+/- 4 dB within the band +/- 0.4 dB within 30 MHz
Noise Figure, typical	0.8 dB
LO Phase noise typical	-70 dBc @ 1 kHz -85 dBc @ 5 kHz -90 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
Input	WR-75 waveguide (R120)
Output (waterproof)	F-connector 75 ohm or N-connector 50 ohm
Output VSWR	2.1:1 max
DC power	12 - 24 V 250 mA max
Operating temperature	-30 to +60°C (-30 to +70°C for LO stab. +/- 10 kHz)
Dimensions	134 (139 N) x 58 x 50 mm
Weight	526 g (F-connector) 542 g (N-connector)

Options	External 10 MHz reference PLL LO Stability +/- 10 kHz over temp. -10 to +70°C Customized gain and variation RF-shielding Sep. DC power input Specified LO. Min. 50-100 pcs PLL with SMA-input. See Block Downconverter Extended frequency range PLL 11.3 with e.g. 11.25 - 13.25 GHz
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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>