



Low phase noise PLL



Available with internal LO stability ± 100 kHz (± 10 ppm), ± 150 kHz (± 15 ppm) or ± 250 kHz (± 25 ppm). Comes standard with low phase noise and low noise figure.

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.

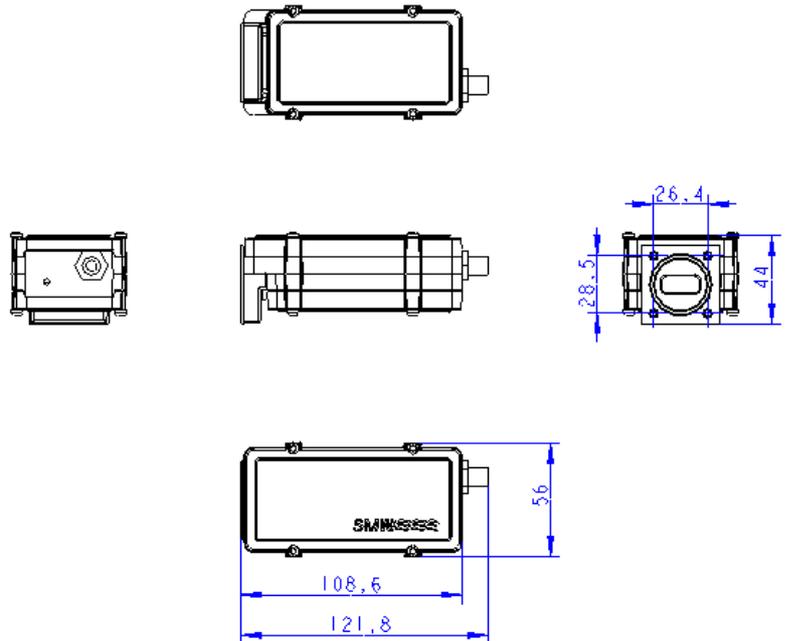
Swedish Microwave was founded 1986 and is today a leading manufacturer of professional LNBS (Low Noise Block converters). The company is located in Motala Sweden, and to date the products are installed in more than 100 countries.

All work is in-house allowing custom-design products, short delivery times, high flexibility, quick service and support.

SPECIFICATION SMW PLL-LNB

SMW PLL-LNB	9.75 GHz	10.0 GHz	10.25 GHz	10.5 GHz
Frequency range	10.7 - 11.8 GHz	10.95 - 11.8 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 - 1800 MHz	950 - 1450 MHz	950 - 1700 MHz
SMW PLL-LNB	10.6 GHz	10.7 GHz	10.75 GHz	11.2 GHz
Frequency range	11.7 - 12.75 GHz	11.65 - 12.75 GHz	11.7 - 12.75 GHz	12.2 - 12.75 GHz
LO frequency	10.6 GHz	10.7 GHz	10.75 GHz	11.2 GHz
Output frequency	1100 - 2150 MHz	950 - 2050 MHz	950 - 2000 MHz	1000 - 1550 MHz
SMW PLL-LNB	11.25 GHz	11.3 GHz		
Frequency range	12.2 - 12.75 GHz	12.25 - 12.75 GHz		
LO frequency	11.25 GHz	11.3 GHz		
Output frequency	950 - 1500 MHz	950 - 1450 MHz		
LO stability (over temp.)*	±100 kHz (±10 ppm), ±150 kHz (±15 ppm) or ±250 kHz (±25 ppm)			
Gain	60 dB typ. (55 dB min.)			
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 -100 dBc @ 100 kHz -120 dBc @ >1 MHz			
LO radiation	-60 dBm			
Image rejection	40 dB min			
P1dB typ.	+5 dBm			
IP 3 typ.	+15 dBm			
Input	WR-75 waveguide (R120)			
Output (waterproof)	F-connector 75 ohm, N-connector 50 ohm or SMA-connector 50 ohm			
Input VSWR	2.3:1 max			
Output VSWR	2.1:1 max			
DC power	12 - 24 V 270 mA typ.			
Operating temperature	-40 to +80 °C			
Storage temperature	-40 to +80 °C			
Dimensions	122 (127 N) x 56 x 44 mm			
Weight	329 g (F- & SMA-connector) 345 g (N-connector)			
Enclosed accessories	O-ring Screw M4 x 8 4 pcs			

* over temp. -30° to +60 °C



Specifications are subject to change without notice. General terms Orgalime S 2000. Products from Swedish Microwave AB are made for commercial use.

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