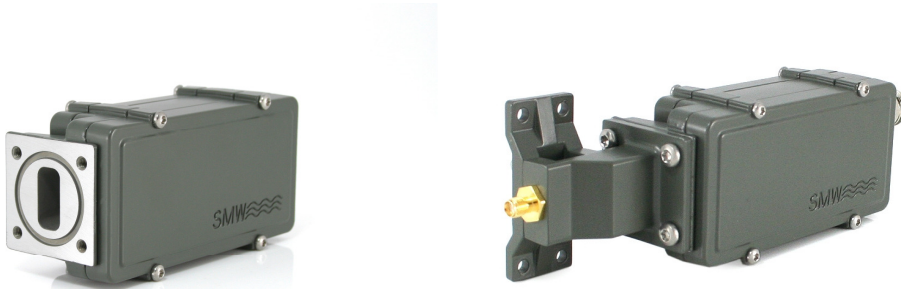


For monitoring Tx.



The new LNB 13/14 GHz has either internal high LO stability or external 10 MHz reference. WR75 waveguide input or SMA input (via transition).

Options include customized LO, customized gain, separate DC power input, and separate input connector for the external 10 MHz reference.

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 PLL13/14 GHz

Frequency range	12.75 – 13.25 GHz	13.75 – 14.5 GHz
LO frequency	11.8 GHz	12.8 GHz
Output frequency	950 – 1450 MHz	950 - 1700 MHz

Gain	50 dB typ. or 0 dB typ.
Gain variation within 30 MHz max.	±0.4 dB
Gain variation max.	±4 dB
Noise Figure, typical	1.2 dB (2.0 dB with transition).
LO radiation	-60 dBm
Image rejection	40 dB min
P1dB typ.	+15 dBm
IP 3 typ.	+25 dBm
Input	WR-75 waveguide (R120) or SMA (transition)
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)

Internal reference

LO stability (over temp.)*	±10 kHz (±1 ppm) or ±25 kHz (±2.5 ppm)
LO Phase noise typical	-75 dBc @ 1 kHz -78 dBc @ 10 kHz -90 dBc @ 100 kHz -120 dBc @ >1 MHz

External reference

LO stability (over temp.)*	Depend on the reference
External reference input power	-5 to +10 dBm
External reference input port	Output IF connector. Option Sep. connector (F, N or SMA)
LO Phase noise typical	-70 dBc @ 10 Hz -70 dBc @ 100 Hz -75 dBc @ 1 kHz -78 dBc @ 10 kHz -90 dBc @ 100 kHz
External Reference Phase noise	-135 dBc @ 100 Hz -143 dBc @ 1 kHz -145 dBc @ 10 kHz

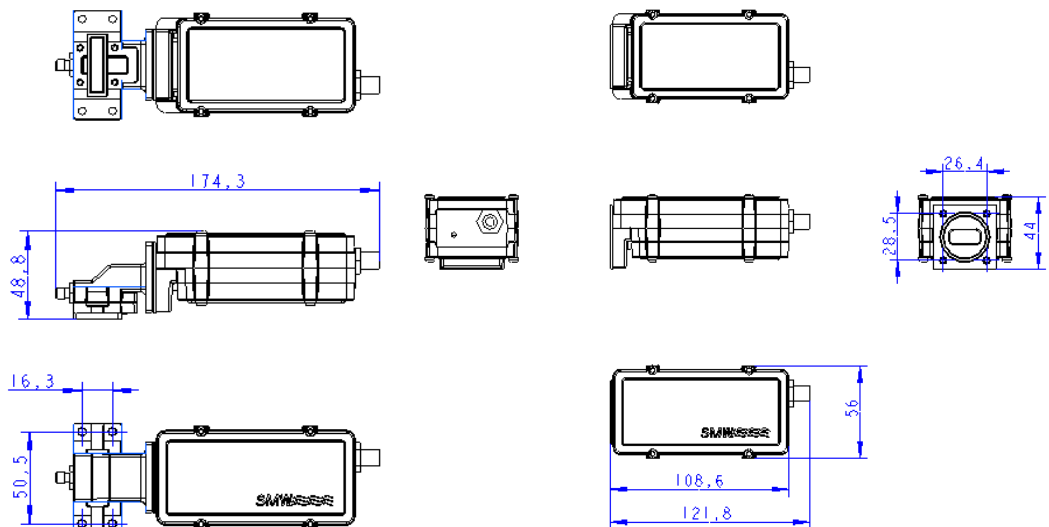
Options

Separate DC power input (F, N or SMA)
Separate connector for the ext. 10 MHz ref. (F, N or SMA)
Customized gain and variation
Customized LO
Extended frequency range
SMA-output connector

Enclosed accessories

O-ring
Screw M4 x 8 4 pcs

* ±10 kHz within -10° to +70°C
±25 kHz within -40° 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.

2011-08-24