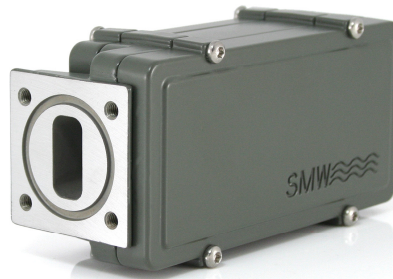




Low phase noise PLL



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.

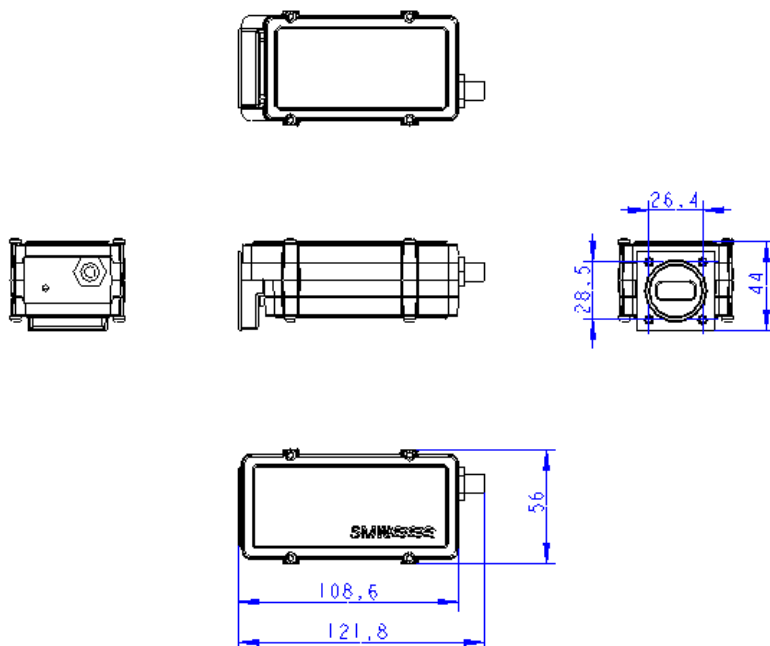
SPECIFICATION SMW PLL-LNB

| | | | | |
|-----------------------------------|---|-------------------|------------------|------------------|
| 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.

2011-10-19