

SMW Wideband X-Line



Switchable Dual Band LNBS

The new X-Line has a improved phase noise and is optimized for applications like Broadband via satellite, High speed data, VSAT systems and Commercial satellite headends.

Four standard models and comes with low noise figure, F-connector and two-year warranty. Options include high stability LO, low gain, low output VSWR and N-connector.

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 X-Line

| SMW | | X-Line type A | X-Line type B |
|------------------|--------|-------------------------------|-----------------------------|
| Frequency range | | 10.95-11.95 / 11.95-12.75 GHz | 10.95-11.7 / 11.7-12.75 GHz |
| LO frequency | Band 1 | 10.0 GHz | 10.0 GHz |
| | Band 2 | 11.0 GHz | 10.75 GHz |
| Output frequency | Band 1 | 950 - 1950 MHz | 950 - 1700 MHz |
| | Band 2 | 950 - 1750 MHz | 950 - 2000 MHz |

| SMW | | X-Line type C | X-Line type E |
|------------------|--------|----------------------------|----------------------------|
| Frequency range | | 10.7-11.7 / 11.7-12.75 GHz | 10.7-11.7 / 11.7-12.75 GHz |
| LO frequency | Band 1 | 9.75 GHz | 9.75 GHz |
| | Band 2 | 10.75 GHz | 10.6 |
| Output frequency | Band 1 | 950 - 1950 MHz | 950 - 1950 MHz |
| | Band 2 | 950 - 2000 MHz | 1100 - 2150 MHz |

General Specification

SMW X-Line

| | | |
|-----------------------------|--------|---|
| Noise figure, typical | | 0.8 dB |
| Gain | | 52 +/- 3 dB |
| Gain variation | | +/- 0.3 dB within 30 MHz |
| LO stability (over temp.) | | +/- 3 MHz |
| LO Phase noise typical | | -75 dBc @ 1 kHz -85 dBc @ 5 kHz -95 dBc @ 10 kHz -110 dBc @ 100 kHz -115 dBc @ >1 MHz |
| LO radiation | | -50 dBm |
| Image rejection | | 50 dB min |
| 1 dB gain compression point | | +5 dBm |
| Input | | WR-75 waveguide |
| Output | | F-connector, 75 ohm, water proof |
| Output VSWR | | 2.0:1 |
| DC power | Band 1 | 11.5 - 14.0 V |
| | Band 2 | 16.0 - 19.0 V |
| Current | | 140 mA typ |
| Temperature range | | -30 to +60°C |
| Weight | | 230 g |

Options

Low gain
 Customized LO's, 9.75-11.475 GHz
 High stability LO, +/- 1 MHz over temp.
 High stability LO, +/- 1.5 MHz over temp.
 High stability LO, +/- 2 MHz over temp.
 Low output VSWR, 1.55:1
 N-connector 50 ohm
 Extended frequency range

Accessories

Plastic covers

