

SMW WDL Digital



Dual Band with Low Phase Noise

The WDL Digital is the standard Dual LNB (Low- and High Band) to receive Low- & High Band simultaneously. The LNB has a extremely low phase noise designed for SMATV/CATV- and Professional systems.

Comes as standard with low noise figure, F- or N-connectors and two-years warranty. Options include high LO stability +/- 1, 1.5 or 2 MHz, RF-shielding, costomized gain, low output VSWR 1.55:1 and customized LOs (e.g. 10.2 & 11.0 GHz).

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 WDL Digital

).7 - 11.7 / 11.7 - 12.75 GHz	10.95 - 11.7 / 11.7 - 12.75 GHz
75 GHz (Low band)	10.0 GHz (Low band)
0.6 GHz (High band)	10.75 GHz (High band)
50 - 1950 MHz (Low band)	950 - 1700 MHz (Low band)
100 - 2150 MHz (High band)	950 - 2000 MHz (High band)
0 dBm typ. @ 1700 MHz	-60 dBm typ. @ 1500 MHz
0 dBm typ. @ 1700 MHz	-70 dBm typ. @ 1500 MHz
	75 GHz (Low band) 0.6 GHz (High band) 50 - 1950 MHz (Low band) 00 - 2150 MHz (High band) 0 dBm typ. @ 1700 MHz

General Specification

Output connectors

Noise figure, typical 0.8 dB 52 +/- 4 dB Gain Gain variation

+/- 0.4 dB within 30 MHz

+/- 3 MHz LO stability (over temp.) LO Phase noise typ. -75 dBc @ 1 kHz -85 dBc @ 5 kHz -95 dBc @ 10 kHz -110 dBc @ 100 kHz -115 dBc @ >1 MHz

LO radiation -60 dBm 50 dB min. Image rejection

1 dB gain compression point +5 dBm 12-24V / 180 mA typ (the DC can be feed through DC power

any of the two connectors) Operating temperature -30 to +60° C Input flange WR-75 waveguide

F-connectors 75 ohm or N-connectors 50 ohm

Water-proof Output VSWR 2:1 max 134 (139 N) x 58 x 50 mm **Dimensions** Weight 587 g (F-connectors)

626 g (N-connectors)

Options High stability LO, +/- 1 MHz over temp.

High stability LO, +/- 1.5 MHz over temp. High stability LO, +/- 2 MHz over temp.

RF-shielding

Customized LOs. (E.g. 10.2 & 11.0 GHz)

Customized gain Low output VSWR, 1.55:1







