

SMW Twin Digital / Twin PLL



Vertical & Horizontal simultaneously

For optimal performance and reliability in reception Vertical- and Horizontal polarizations you need individually tested and adjusted products. The professional Twin consists of two professional LNB Single band LNBs (option PLL-LNBs) assembled with one ortho mode transducer protected under a plastic cover. Available in different bands within the frequency range 10.7 - 12.75 GHz and different LO¥s between 9.75 - 11.475 GHz.

Comes as standard with very low phase noise, low noise figure, high cross polarization (Isolation), F- or N-connectors and two-years warranty. Options include High LO stability customized and low output VSWR 1.55:1.

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 Twin Digital (PLL see PLL-sheet)

SMW Twin	Digital 9.75	Digital 10.0	Digital 10.05	Digital 10.6
Frequency range	10.7 - 11.8 GHz	10.95 - 12.1 GHz	11.0 - 12.1 GHz	11.7 - 12.75 GHz
LO frequency	9.75 GHz	10.0 GHz	10.05 GHz	10.6 GHz
Output frequency	950 - 2050 MHz	950 - 2100 MHz	950 - 2050 MHz	1150 - 2150 MHz
SMW Twin	Digital 10.75	Digital 11.2	Digital 11.25	Digital 11.3
Frequency range	11.7 - 12.75 GHz	12.2 - 12.75 GHz	12.2 - 12.75 GHz	12.25 - 12.75 GHz
LO frequency	10.75 GHz	11.2 GHz	11.25 GHz	11.3 GHz
Output frequency	950 - 2000 MHz	1000 - 1550 MHz	950 - 1500 MHz	950 - 1450 MHz
SMW Twin	Digital 11.475			
Frequency range	12.5 - 12.75 GHz			
LO frequency	11.475 GHz			
Output frequency	1025 - 1275 MHz			

General Specification

Noise figure, typical 0.9 dB Gain 53 +/- 3 dB

Gain variation +/- 0.3 dB within 30 MHz

Cross polarization 31.5 dB min
LO radiation -60 dBm
Image rejection 50 dB min.
1 dB gain compression point +5 dBm

DC power 12-24V / 110 mA typ on each polarization

Operating temperature -30 to +60 ∞ C
Output connectors (waterproof) F-connectors 75 ohm or

N-connectors 50 ohm

Output VSWR 2:1 max Output VSWR 2:1 max

Weight 961 g (F-connectors), 990 g (N-connectors)

Options High stability LO, +/- 1 MHz over temp. If you need better see sheet of PLL.

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

Offset LO frequency, 9.75-12.5 GHz

Low output VSWR, 1.55:1

Accessories Adapter C120/C120, see Feedhorn leaflet

Feedhorns, see Feedhorn leaflet



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