

/ SMW Twin Digital Twin PLL



V + H

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, high cross polarization (Isolation), F- or N-connectors and two-years warranty. Options include High LO stability customized, low output VSWR 1.55:1 and RF-shielding.

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
Dutput 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
O frequency	10.75 GHz	11.2 GHz	11.25 GHz	11.3 GHz
Dutput frequency	950 - 2000 MHz	1000 - 1550 MHz	950 - 1500 MHz	950 - 1450 MHz
SMW Twin	Digital 11.475			
requency range	12.5 - 12.75 GHz			
_O frequency	11.475 GHz			
Dutput frequency	1025 - 1275 MHz			
General Specification				
Noise figure, typical	0.9 dB			
Gain	53 +/- 3 dB			
Gain variation	+/- 0.3 dB within 30 MHz			
O stability (over temp.)	+/- 3 MHz			
Phase noise typ	-75 dBc @ 1 kHz			
	-85 dBc @ 5 kHz			
	-95 dBc @ 10 kHz			
	-110 dBc @ 100 kHz			
	-115 dBc @ > 1 MHz			
nput	Circular waveguide 18 mm			
Cross polarization	31.5 dB min			
_O radiation	-60 dBm			
mage rejection	50 dB min.			
I dB gain compression point	+5 dBm			
DC power	12-24V / 110 mA typ on each polarization			
Operating temperature	-30 to +60° C F-connectors 75 ohm or			
Output connectors	N-connectors 50 ohm			
Output VSWR	2:1 max	111		
Dutput VSWR	2.1 max 2:1 max			
Neight	961 g (F-connectors), 990 g (N-connectors)			
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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			
	RF-shielding			
	Low output VSWR, 1.55:1			
Accessories	Adapter C120/C120, see Feedhorn leaflet			
	Feedhorns, see Fee	edhorn leaflet		



