

## ***SMW Up- & Down Converters***



### ***Small and Light units***

The main applications are local TV distributions, internet and small power links.

SMW's Up Converter covers the frequency range 9.8 - 10.0 GHz and the Down Converters are available within the frequency range 9.0 - 10.7 GHz with different LOs depending on model.

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 all LNBS are 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.

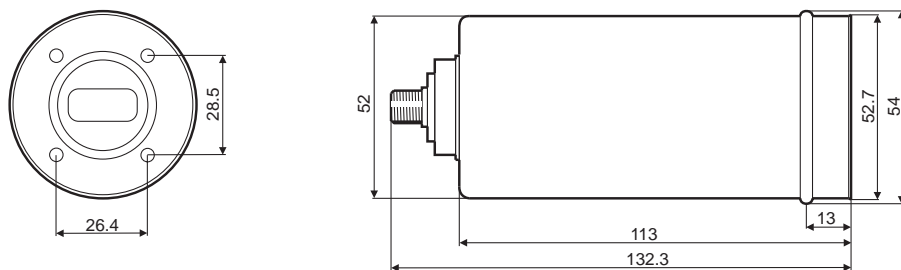
Swedish Microwave is today one of the leading manufacturers of microwave components needed for satellite receiving equipment and other industrial products.

# General Specification

SMW	Up converter
Output frequency	9.8 - 10.0 GHz
Input frequency	1450 - 1250 MHz
Input level	0 dBm
Output level typ	10 dBm (10 mW)
LO frequency	11.25 GHz
LO stability	+/- 3 MHz (-30 to +60° C)
DC power	12 - 20 V 140 mA typ
Input connector	N-connector 50 ohm or F-connector 75 ohm
Operating temperature	-30 to +60°C
Weight	256 g (F-connector) 297 g (N-connector)

SMW	Down converter
Input frequency	9.8 - 10.0 GHz
Output frequency	1450 - 1250 MHz
Noise Figure	typ 1.2 dB
Gain	min 35 dB
Gain variation	+/- 0.3 dB within 30 MHz
LO frequency	11.25 GHz
LO stability (over temp.)	+/- 3 MHz
Phase noise typ	-50 dBc @ 1 kHz -75 dBc @ 10 kHz -95 dBc @ 100 kHz
LO radiation	-50 dBm
Image rejection	50 dB min
1 dB gain compression point	+5 dBm
Input	WR-75 waveguide
Output connector	N-connector 50 ohm or F-connector 75 ohm
Output VSWR	2.0:1
DC power	12 - 24 V 140 mA typ
Operating temperature	-30 to +60°C
Weight	256 g (F-connector) 297 g (N-connector)

**Options Down converter** Frequency range **9.0-10.7 GHz** with different LOs. Max 2150-950 MHz.



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