

## Dual Band with low phase noise



The WDL DRO is the optimized solution to receive the Low- & High Ku-Band simultaneously.

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 is today a leading manufacturer of professional LNBs (Low Noise Block converters). The company is located in Motala Sweden, and to date the products are installed in more than 100 countries.

All work is in-house allowing custom-design products, short delivery times, high flexibility, quick service and support.

## SPECIFICATION SMW WDL DRO

### SMW

Frequency range Low & High  
LO frequency

Output frequency

Spurious signal in low band  
high band

### WDL DRO type E

10.70-11.70 & 11.70-12.75 GHz

9.75 GHz (Low band)

10.60 GHz (High band)

950-1950 MHz (Low band)

1100-2150 MHz (High band)

-60 dBm typ. @ 1700 MHz

-70 dBm typ. @ 1700 MHz

### WDL DRO type B

10.95-11.70 & 11.70-12.75 GHz

10.00 GHz (Low band)

10.75 GHz (High band)

950-1700 MHz (Low band)

950-2000 MHz (High band)

-60 dBm typ. @ 1500 MHz

-70 dBm typ. @ 1500 MHz

### General specification

Noise figure, typ.

0.8 dB

Gain typ.

52 dB

Gain variation max.

±4 dB/each band

±0.4 dB within 30 MHz

LO stability (over temp.)

±3 MHz

Age drifting

±500 kHz/year

LO Phase noise typ.

-75 dBc @ 1 kHz

-95 dBc @ 10 kHz

-110 dBc @ 100 kHz

-115 dBc @ >1 MHz

LO radiation

-60 dBm

Image rejection

50 dB min.

P1dB typ.

+5 dBm

IP3 typ.

+15 dBm

DC power

12-24 V / 180 mA typ. (the DC can be feed through any of the two connectors. The LNB chooses the output with the highest voltage input)

Operating temperature

-30 to +60 °C

Storage temperature

-40 to +80 °C

Input flange

WR-75 waveguide

Output connectors (waterproof)

F-connectors 75 ohm or

N-connectors 50 ohm

Output VSWR typ.

2:1

Dimensions

134 (139 N) x 58 x 50 mm

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.

Low gain (NF > 1.0 dB typ.)

### Enclosed accessories

O-ring

Screw M4 x 8 4 pcs

