

# SMW WDL Digital

## DUAL BAND LNB WITH LOW PHASE NOISE



The WDL Digital is the Dual LNB to receive the Low- & High Band simultaneously. Comes as standard with low phase noise, low noise figure, F- or N-connectors and two year warranty. Options include high stability  $\pm 1$ , 1,5 or 2 MHz, RF shielding, customized gain, low output VSWR 1.55:1 and customized LOs (e.g. 10,2 & 11,0 GHz). All LNBs are individually hand tuned to get the very best performance available for each unit. Therefore are all LNBs tested according to a very extensive test program which includes heating, cooling, water-proof testing and rigorous electrical testing.

## SPECIFICATIONS

SMW	WDL DIGITAL TYPE E
Frequency range Low/High	10,7-11,7-12,75 GHz
LO frequency	9,75 GHz (Low band) 10,6 GHz (High band)
Output frequency	950-1950 MHz (Low band) 1100-2150 MHz (High band)
Spurious signals low band high band	- 60 dBm typ. @ 1700 MHz - 70 dBm typ. @ 1700 MHz
Noise figure, typ.	0,8 dB
Gain	52 $\pm$ 4 dB
Gain variation	$\pm$ 0,4 dB within 30 MHz
LO stability (over temp.)	$\pm$ 3 MHz
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
Image rejection	50 dB min
1 dB gain compression point	+ 5 dBm
DC power	12-24 V / 180 mA typ (the DC can be feed through any of the two Connectors)
Operating temperature	- 30° ... + 60°C
Output connectors (waterproof)	F-Connectors 75 Ohm or N-Connectors 50 Ohm waterproof
Output VSWR	2:1 max
Dimensions	134 (N 139 N) x 58 x 50 mm
Weight	587 g (F-Connectors). 626 g (N-Connectors)

## OPTIONS

High stability LO,  $\pm 1$  MHz over temp.  
 High stability LO,  $\pm 1,5$  MHz over temp.  
 High stability LO,  $\pm 2$  MHz over temp.  
 RF shielding  
 Customized LOs, (e.g. 10,2 & 11,0 GHz)  
 Customized gain  
 Low output VSWR, 1.55

