New Dual Band PLL

The new WDL-PLL is the professional solution to receive the low- & high Ku-Band simultaneously with high LO stability.

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-PLL**

- **Frequency range Low & High**: 10.7 - 11.7 & 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 signal in Low band**: -60 dBm typ. @ 1700 MHz
- **High band**: -70 dBm typ. @ 1700 MHz
- **Gain typ.**: 57 dB (50 dB min.)
- **Gain variation max.**: ±4 dB/each band, ±0.4 dB within 30 MHz
- **Noise figure, typ.**: 1.1 dB
- **LO radiation**: -60 dBm
- **Image rejection**: 40 dB min.
- **IP3 typ.**: +15 dBm
- **Input flange**: WR-75 waveguide
- **Output connectors (waterproof)**: F-connectors 50 ohm, N-connectors 50 ohm or SMA-connectors 50 ohm
- **Input VSWR**: 2.3:1 max
- **Output VSWR**: 2.1:1 max
- **DC power**: 12-20 V / 370 mA max (either one output or both outputs)
- **Operating temperature**: -40 to +80°C
- **Storage temperature**: -40 to +80°C
- **Dimensions**: 122 (127 N) x 56 x 44 mm
- **Weight**: 335 g (F-connectors), 371 g (N-connectors)

- **LO stability (over temp.*):** ±10 kHz (±1 ppm) or ±25 kHz (±2.5 ppm)
- **LO Phase noise typ.**: -75 dBc @ 1 kHz
- **-78 dBc @ 10 kHz**
- **-90 dBc @ 100 kHz**
- **-120 dBc @ >1 MHz**

**Options**
- **SMA-input (via transition)**

**Enclosed accessories**
- **O-ring**
- **Screw M4 x 8 4 pcs**

* ±25 kHz within -40°C to +60°C
±10 kHz within -10°C to +70°C

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