



Dual band PLL LNB for simultaneous reception of Low & High Ku-Band

The WDL-PLL LNB supports reception of full Ku-Band frequency range simultaneously with 2 LO's for low and high band outputs.

The WDL-PLL LNB is ideal for installation in various professional applications with low symbol rate carriers.



DVBS2

NEW! DVBS2X

Features

- Full Ku-Band coverage
- Low phase noise to meet the Broadcast profile of DVB-S2, optional ultra-low phase noise model meets all profiles of DVB-S2X
- High P1dB and IP3
- Choose between Internal Ref. or External Ref. input models
- Compact size and light weight
- Wide operating temperature range
- Low gain option

TECHNICAL SPECIFICATIONS

MODEL:	WDL-PLL LNB type E		WDL-PLL LNB type B			
	Low band	High band	Low band	High band		
Frequency Band	10.70 - 11.70 GHz	11.70 - 12.75 GHz	10.95 - 11.70 GHz	11.70 - 12.75 GHz		
Input Frequency	10.70 - 11.70 GHz	11.70 - 12.75 GHz	10.95 - 11.70 GHz	11.70 - 12.75 GHz		
LO Frequency	9.75 GHz	10.60 GHz	10.00 GHz	10.75 GHz		
Output Frequency	950 - 1950 MHz	1100 - 2150 MHz	950 - 1700 MHz	950 - 2000 MHz		
Spurious	-60 dBm @ 1700 MHz typ.	-70 dBm @ 1700 MHz typ.	-60 dBm @ 1500 MHz typ.	-70 dBm @ 1500 MHz typ.		
Gain	60dB typ.					
Flatness	±0.25 dB max. within 30 MHz ±2 dB max. each band					
Noise Figure / Noise Temperature	0.8 dB / 59 K typ.					
Phase Noise (Std)	-35 dBc @ 10 Hz	-62 dBc @ 100 Hz	-75 dBc @ 1 kHz	-80 dBc @ 10 kHz	-90 dBc @ 100 kHz	-120 dBc @ ≥1MHz, typ.
Phase Noise (Option ULP)	-35 dBc @ 10 Hz	-65 dBc @ 100 Hz	-82 dBc @ 1 kHz	-94 dBc @ 10 kHz	-98 dBc @ 100 kHz	-120 dBc @ ≥1MHz, typ.
Image Rejection	40 dB min.					
Output P1dB	+15 dBm typ.					
Output IP3	+25 dBm typ.					
Output VSWR	1.7:1 typ.					
Output Connectors	2 pcs F-type 75Ω / N-type 50Ω	Option SMA-type 50Ω	2 pcs F-type 75Ω / N-type 50Ω	Option SMA-type 50Ω		
Input Waveguide	WR 75 / R 120. Flange PBR 120					
Input VSWR	2.3:1 max., 1.3:1 with isolator max. (option)					
LO Leakage	-60 dBm @ waveguide input					
Internal Ref. Stability	**) ±5 kHz -20 to +70°C (±10 kHz -40 to +80°C) ±10 kHz -20 to +70°C (±15 kHz -40 to +80°C)					
External 10MHz Ref.	Level: -15 to +5 dBm. Supplied through the High band output connector (with no ext. 10 MHz ref. present LO shifts -20 ppm)					
DC Input	*) +12 to +26 V. supplied through any or both output connectors (Ext. 10 MHz ref. model: High band output connector)					
Power consumption	5 W typ.					
Temperature Range	-40 to +80°C					
Dimensions	122 x 57 x 46 mm (F- & SMA-connector)		128 x 57 x 46 mm (N-connector) (for drawing, see www.smw.se)			
Weight	335 g (F-connector)		371 g (N-connector)			
Options	Customized gain and variation. Extended low band 10.95-11.8 GHz / 10.95-12.15 GHz (type B), DC input +15 to +26 V, Waveguide Isolator, Fiber output (Q-ODC). Model with Ultra-Low Phase Noise to meet all DVB-S2X profiles					
Miscellaneous	Enclosed O-ring, mounting screws (M4 x 10) 4 pcs.					

*) With option "Ultra Low Phase Noise", (ULP), +15 to +26 Volt

**) With option "Ultra Low Phase Noise" (ULP), ± 10 kHz or Ext. 10 MHz ref.