



Wideband, extended IF, output PLL LNB for simultaneous reception 2 GHz of the Ka-Band

The Wideband output LNB/BDC supports reception of wider range of Ka-Band with 1 LO and extended IF output 950 - 2950 MHz.

The LNB/BDC features Low Phase Noise to meet the DVB-S2X Professional services profile.

Ideal for installation in various applications with low Symbol Rate carriers including HTS.

NEW!



Features

- Custom Frequency ranges within 17.70-22.20 GHz
- Wide Ka-Band coverage with 1 LO and 1 output
- Ultra Low Phase Noise
- 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:	LNB 16.75 GHz	LNB 18.25 GHz
Input Frequency	17.70 - 19.70 GHz	19.20 - 21.20 GHz
LO Frequency	16.75 GHz	18.25 GHz
Output Frequency	950 - 2950 MHz	
Gain	60 dB typ. (55 dB min.)	
Flatness	±0.4 dB max. within 30 MHz ±3 dB max. full band	
Noise Figure / Noise Temperature	1.3 dB / 101 K typ.	1.4 dB / 110 K typ.
Phase Noise	-40 dBc @ 10 Hz -65 dBc @ 100 Hz -85 dBc @ 1 kHz -90 dBc @ 10 kHz	-95 dBc @ 100 kHz -112 dBc @ ≥1 MHz typ.
Image Rejection	30 dB min.	
Output P1dB	+15 dBm typ.	
Output IP3	+25 dBm typ.	
Output VSWR	2.1:1 typ.	
Output Connector	N-type 50Ω Option SMA-type 50Ω	
Input Waveguide	WR 42 / R 220. Flange PBR 220	
Input VSWR	2.3:1 typ.	
LO Leakage	-60 dBm @ waveguide input	
Internal Ref. Stability	±1 ppm -40 to +60°C (±1.5 ppm -40 to +80°C) / ±2.5 ppm -40 to +60°C (±3.5 ppm -40 to +80°C)	
External 10 MHz Ref.	Level: -15 to +5 dBm. Supplied through output connector (with no ext. 10 MHz ref. present LO shifts -20 ppm)	
DC Input	+12 to +24 V Supplied through output connector	
Power Consumption	5 W typ.	
Temperature Range	-40 to +80°C	
Dimensions	121 x 56 x 44 mm (SMA-connectors)	127 x 56 x 44 mm (N-connectors) (for drawing, see www.smw.se)
Weight	326 g (F- & SMA-connectors)	345 g (N-connectors)
Miscellaneous	Enclosed O-ring, mounting screws (M3 x 8) 4pcs (for LNB).	
Options	Customized LO, gain & variation, separate DC input, separate 10 MHz ref. input, Waveguide Isolator (input VSWR 1.4:1 max)	

*) Values for BDC on request