

Fiber output Single band PLL LNB

Professional Single Band Fiber LNB

The Ka-band Fiber PLL LNB is a single-band LNB that covers the wide frequency range 17.30-22.20 GHz with several sub-bands and LO frequencies.

Up to 20 km standard 1310 nm (optional up to 40 km with 1550 nm) single mode fiber cable distance, depending on link budget with very high C/N maintained.




Features

- Frequency range 17.30-22.20 GHz
- Several LO frequencies available
- Choose between Internal Ref. or External Ref. input models
- Low phase noise (DVB-S2X professional services)
- High P1dB and IP3 out RF via Fiber receiver
- Compact size and light weight
- Wide operating temperature range
- Directly compatible with SMW Quattro and Versa Link Fiber receivers and compatible with a wide range of RF over Fiber receivers on the market.

TECHNICAL SPECIFICATION

MODEL:	16.35	16.35 E	16.75	17.20	17.25	18.20	18.25	18.75	19.20	19.25	20.20	20.25
Input Frequency	17.30-18.30 GHz	17.30-18.40 GHz	17.70-18.70 GHz	18.20-19.20 GHz	18.20-19.20 GHz	19.20-20.20 GHz	19.20-20.20 GHz	19.70-20.20 GHz	20.20-21.20 GHz	20.20-21.20 GHz	21.20-22.20 GHz	21.20-22.20 GHz
LO Frequency	16.35 GHz	16.35 GHz	16.75 GHz	17.20 GHz	17.25 GHz	18.20 GHz	18.25 GHz	18.75 GHz	19.20 GHz	19.25 GHz	20.20 GHz	20.25 GHz
Output Frequency (Fiber Rx)	950-1950 MHz	950-2050 MHz	950-1950 MHz	1000-2000 MHz	950-1950 MHz	1000-2000 MHz	950-1950 MHz	950-1450 MHz	1000-2000 MHz	950-1950 MHz	1000-2000 MHz	950-1950 MHz
Optical Output	Direct modulated DFB, 2 mW @ 1310 nm											
Conversion Gain	60 dB typ.											
Flatness	± 0.4 dB max. within 30 MHz, ± 2 dB max. over each band											
Noise Figure / Noise Temperature	1.3 dB / 101 K typ.									1.4 dB / 110 K typ.		1.5 dB / 120 K typ.
Phase Noise	-35 dBc @ 10 Hz, -65 dBc @ 100 Hz, -80 dBc @ 1 kHz, -85 dBc @ 10 kHz, -95 dBc @ 100 kHz, -112 dBc @ >1 MHz typ.											
LO reference	Auto switch External / Internal											
Internal Ref. Stability	±2.5 ppm @ -40° to +60° C (±3.5 ppm @ -40° to +70° C)											
External 10 MHz Ref.	Sine Wave, Level -10 to +10 dBm, supplied through separate connector.											
Input IP3	-35 dBm typ.											
Input VSWR	2.1:1 typ.											
Input Waveguide	WR 42 / R 220, Flange PBR 220											
Output Fiber Connector	Dual fiber, Single mode Huber & Suhner, Q-ODC											
RF / DC Connector	F-type 75Ω / N-type 50Ω Option SMA-type 50Ω. RF monitor port 45 dB gain.											
DC Input	+12 to +24 Volt, Fed via the RF monitor port						+13 to +24 Volt, Fed via the RF monitor port					
Power Consumption	6 W max.											
Temperature Range	Storage and operating: -40° to +70° C											
Dimensions	129 x 63 x 56 mm											
Weight	460 g (F & SMA connector), 500 g (N connector)											
Standards Compliance	Optical interface: EIA/TIA 568, ITU std. G694.2; EMC: EN 55013:2013, EN 55020, EN 300 386; Safety: EN 60950-1, EN 60950-22, EN 60065:2002											
Options	Fixed gain (Beacon), 1550 nm fiber transmitter (increased distance), Enclosure fixing points											
Miscellaneous	Enclosed conductive O-ring, mounting screws (M3 x 8) 4pcs.											
Accessories	Outdoor to Outdoor fiber cables, Outdoor to indoor patch cables (different connector type and lengths), External 10 MHz ref. oscillator, Dual DC Inserter, Power Supply Unit (AC to DC)											

Rev.12-21-2B



Optional Low loss isolator



Optional enclosure fixing points

Above parameters are generic product family values. For part number specific min./max. values, please consult us.
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