

9-10 GHz PLL LNB



Single 9-10 GHz professional LNB
High stability internal or
external 10 MHz reference



The professional PLL has Low Phase Noise, High IP3 and Low Noise Figure.

Options include customized LO, customized gain, separate DC power input and separate input for the external 10 MHz reference.

Features

- Choose between Internal Ref. or External Ref. input models
- Several LO frequencies
- Low phase noise
- High P1dB and IP3
- Available as TWIN for H/V reception
- Compact size and light weight
- Wide operating temperature range

TECHNICAL SPECIFICATIONS

MODEL:	9.25	11.35	11.40	11.45	11.50	11.55	11.60	11.65
Input Frequency	10.20 - 10.70 GHz	9.90 - 10.40 GHz	9.95 - 10.45 GHz	10.00 - 10.50 GHz	10.05 - 10.55 GHz	10.10 - 10.60 GHz	10.15 - 10.65 GHz	10.20 - 10.70 GHz
LO Frequency	9.25 GHz	11.35 GHz	11.40 GHz	11.45 GHz	11.50 GHz	11.55 GHz	11.60 GHz	11.65 GHz
Output Frequency	950-1450 MHz	1450-950 MHz	1450-950 MHz	1450-950 MHz	1450-950 MHz	1450-950 MHz	1450-950 MHz	1450-950 MHz
Gain	45dB typ. or lower gain according to customer requirements.							
Flatness	±0.4 dB max. within 30 MHz ±3 dB max. over band							
Noise Figure / Noise Temperature	1.2 dB / 92 K typ. @ 45 dB gain							
Phase Noise	-35 dBc @ 10 Hz	-62 dBc @ 100 Hz	-75 dBc @ 1 kHz	-83 dBc @ 10 kHz	-93 dBc @ 100 kHz	-120 dBc @ ≥1MHz typ.		
Image Rejection	40 dB min.							
Output P1dB	+10 dBm typ.							
Output IP3	+20 dBm typ.							
Output VSWR	2.1:1 typ.							
Output Connector	F-type 75Ω / N-type 50Ω Option SMA-type 50Ω							
Input Waveguide	WR 75 / R 120. Flange PBR 120.							
Input VSWR	2.3:1 typ., with optional isolator 1.25:1 max.							
LO Leakage	-60 dBm @ waveguide input							
MODELS with Internal Reference	±5 kHz -20 to +70°C (±10 kHz -40 to +80°C), ±10 kHz -20 to +70°C (±15 kHz -40 to +80°C)							
MODELS with External 10 MHz Reference	Sine Wave, Level: -10 to +10 dBm. Supplied through output connector (with no ext. 10 MHz ref. present LO shifts -20 ppm)							
DC Input	+12 to +24 V, 270 mA typ. Supplied through output connector							
Temperature Range	Storage and operating: -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	329 g (F- & SMA-connector) 345 g (N-connector)							
Options	Customized Gain, variation, LO frequency and frequency range, Separate DC input connector F-, N- or SMA-type, Twin-LNB with OMT + bend and protecting cover, 10 MHz ref. input via separate connector (F-, N- or SMA-type), Pressurizable							
Miscellaneous	Enclosed conductive O-ring, mounting screws (M4 x 10) 4 pcs.							
SEE THE RF OVER FIBER AND L-BAND SECTIONS FOR OUTPUT OPTIONS								

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

Specifications are subject to change without notice. Products from Swedish Microwave AB are made for commercial use.

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