## X LNB 7.25 - 7.75 GHz 1 Band SATCOM

## Key features





- Very Low Noise Figure
- Excellent Input VSWR
- High P1dB and IP3
- Low Phase noise meets DVB-S2X profile.
- Wide operating temperature range
- Internal filtering

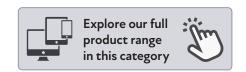
#### Description

The professional X-Band PLL LNB comes standard with Low Phase Noise to meet DVB-S2X Professional services. The LNB features VERY LOW input VSWR to avoid the need of an external isolator. The X-band PLL LNB model 6.30 cover the frequency range 7.25 to 7.75 GHz with fixed gain of 60 dB typ. (55 dB min.). The internal filtering provides good isolation from interfering signals.

Available with Internal LO ref. or with External 10 MHz ref. input. Optional you can order this LNB with CPR 112G adapter.



With optional CPR 112G adapter



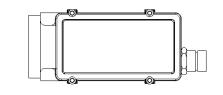
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# Technical specifications

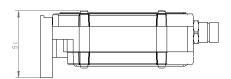
Input   Inpu
Input
Pressurizable   0.1 bar max. (option)
April
Total   Tota
LO ref.   Internal or External 10 MHz ref. Note! Different models
No   No   No   No   No   No   No   No
MODELS with External LO ref.
LO ref.   Sine Wave, Level -10 to +10 dbm. Supplied through output connector. With no ext 10 MHz ref. signal present LO shifts -20 ppm.
LO ref.   ±0.5 ppm -20 to +70°C (±1 ppm -40 to +80°C), ±1 ppm -20 to +70°C (±1.5 ppm -40 to +80°C)     LO Leakage
Flatness
Flatness   ±0.4 dB within 30 MHz, ±2 dB max. over band
-35 dBc @ 10 Hz -65 dBc @ 10 Hz -85 dBc @ 1 kHz -90 dBc @ 10 kHz -100 dBc @ 100 kHz -128 dBc @ >1 MHz typ.  Single sideband phase noise integrated over the bandwidth from 10 Hz to 16 kHz relative to carrier center frequency:  < 3.4° RMS (two-sided value <4.8° RMS).  Filter attenuation 15 dB @ 7.90 GHZ, 30 dB @ 8.00 GHz, 40 dB @ 8.10 GHz, 50 dB @ 8.20 GHz, >60 dB @ 8.30-8.40 GHz  Group delay ± 1ns max.  Out of band rejection 20 dB min.  Image Rejection 60 dB min.  IF output 950-1450 MHz  Output P1dB +15 dBm typ.  Output IP3 +25 dBm typ.  Output VSWR 1.7:1 max. @ 50 ohm
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Group delay
Out of band rejection 20 dB min.  Image Rejection 60 dB min.  IF output 950-1450 MHz  Output P1dB +15 dBm typ.  Output IP3 +25 dBm typ.  Output VSWR 1.7:1 max. @ 50 ohm
Image Rejection   60 dB min.
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Output Connector Ni type 500 SMA type 500 or F type 750
Output Connection 14-type 300 of 1-type 750
Dimensions $130 \times 56 \times 51 \text{ mm}$ (F- & SMA-connector), $135 \times 56 \times 51 \text{ mm}$ (N-connector)
Weight 353 g WR112, 420 g CPR112G (F- & SMA-connector) 369 g WR112, 446 g CPR112G (N-connector)
MTBF as per MIL-HDBK-217F Notice 2: Environmental Condition GF (Ground Fixed): >489000 hours,  MTBF Environmental Condition AIC (Airborne, Inhabited, Cargo): >245000 hours,  Quality level: Commercial, Temp used for MTBF calculation: +35 C Ambient
Temperature range Storage and operating: -40 to +80°C, -40 to +176° F
Miscellaneous Enclosed conductive O-ring, mounting screws (M4 x 10) 4 pcs
Separate SMA connector for DC input or Ext. 10 MHz reference  Options  Options  CPR 112 G flange adaptor  Extended IF

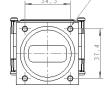
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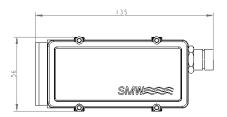
## Technical Drawing



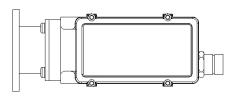


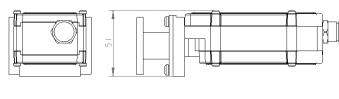


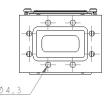


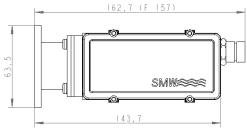


With optional CPR112G adaptor











Professional Satcom Frequency Converters & Components. All products are fully CE and RoHS complient and every unit includes full documentation of performance tests and quality control. Please contact sales@smw.se to configure or customize the unit to your needs. Visit smw.se or scan QR code to see our full product range and request a quote.

