



**GeoSat**  
**Microwave**

- *Low Current Consumption.*
- *Low Noise Specification*
- *Designed for Fixed or Mobile Applications*
- *Broad Gain Control Range*
- *3 Year GeoSat Product Warranty*



## X-Band PLL Low Noise Block (LNB)

Model: **GSLXLN10**



| Section                                     | Item                         | Specification                     |               |
|---|------------------------------|-----------------------------------|---------------|
| Power Requirement                           | Voltage                      | +12 ~ +24V DC                     |               |
|   | Required Current             | 300MA max                         |               |
| Input Characteristics                       | Frequency Range              | 7.25 ~ 7.75GHz                    |               |
|   | Input VSWR                   | 2.2 : 1 max.                      |               |
|   | Noise Figure @ +25C          | 0.8 db max.                       |               |
|   | Leakage @ Input Port         | -45 dBm max.                      |               |
|   | Input Waveguide Flange       | WR-112                            |               |
| Output Characteristics                      | Frequency Range              | 950 ~ 1450MHz                     |               |
|   | Output VSWR                  | 2.2 : 1 max.                      |               |
|   | Gain Flatness                | 4 dBp-p max. (over band & temp.)  |               |
|   | Conversion Gain              | 55 dB typ. (50dB min. 62dB max.)  |               |
|   | Gain Stability (@ per 27MHz) | 1 dBp-p max.                      |               |
|   | Image Rejection              | 45 dBc min.                       |               |
|   | 1dB Gain Compression Point   | +5 dBm min.                       |               |
|   | IF Output Connector          | F-Type female, N-type female      |               |
| Local Oscillator                            | Local Frequency              | 6.3GHz                            |               |
|   | L.O. Stability Over Temp     | +/- 10KHz max.                    |               |
|   | Phase Noise ▼                | 1kHz                              | < -75dBc / Hz |
|   |                              | 10kHz                             | < -85dBc / Hz |
| 100kHz                                      |                              | < -95dBc / Hz                     |               |
| Mechanical                                  | Dimension (mm)               | 118 x 70 x 47mm (w/o connector)   |               |
|   | Weight                       | Approx. 300g                      |               |
|   | Painting                     | White Color                       |               |
| Operating Temperature / Storage Temperature |                              | - 40°C ~ + 60°C / - 40°C ~ + 80°C |               |
| Relative Humidity                           |                              | 0% ~ 90% RH                       |               |

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