



GeoSat
Microwave

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



Ka-Band PLL Low Noise Block (LNB)

Model: GLKAPDN25



| Section | Item | Specification | |
|---|------------------------------|-----------------------------------|---------------|
| Power Requirement | Voltage | +12 ~ +24V DC | |
| | Required Current | 300MA max | |
| Input Characteristics | Frequency Range | 21.2 ~ 22.2GHz | |
| | Input VSWR | 2.2 : 1 max. | |
| | Noise Figure @ +25C | 1.5 db max. | |
| | Leakage @ Input Port | -45 dBm max. | |
| | Input Waveguide Flange | WR-42 | |
| Output Characteristics | Frequency Range | 950 ~ 1950MHz | |
| | Output VSWR | 2.2 : 1 max. | |
| | Gain Flatness | 5 dBp-p max. | |
| | 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 | +7 dBm min. | |
| | IF Output Connector | F-Type female, N-type female | |
| Local Oscillator | Local Frequency | 20.25GHz | |
| | L.O. Stability Over Temp | +/- 25KHz max. | |
| | Phase Noise ▼ | 1kHz | < -60dBc / Hz |
| | | 10kHz | < -80dBc / Hz |
| 100kHz | | < -95dBc / Hz | |
| Mechanical | Dimension (mm) | 101 x 60 x 45mm (w/o connector) | |
| | Weight | 350g | |
| | Painting | White Color | |
| Operating Temperature / Storage Temperature | | - 40°C ~ + 60°C / - 40°C ~ + 80°C | |
| Relative Humidity | | 0% ~ 90% RH | |

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