



GeosSat
Microwave

- Dual bands are switchable
- Low power consumption
- Higher reliability from integrated design principle
- Compact size and light weight
- Meet ETSI, FCC standards



Low Noise Block Ka-Band 5 LO PLL (LNB)

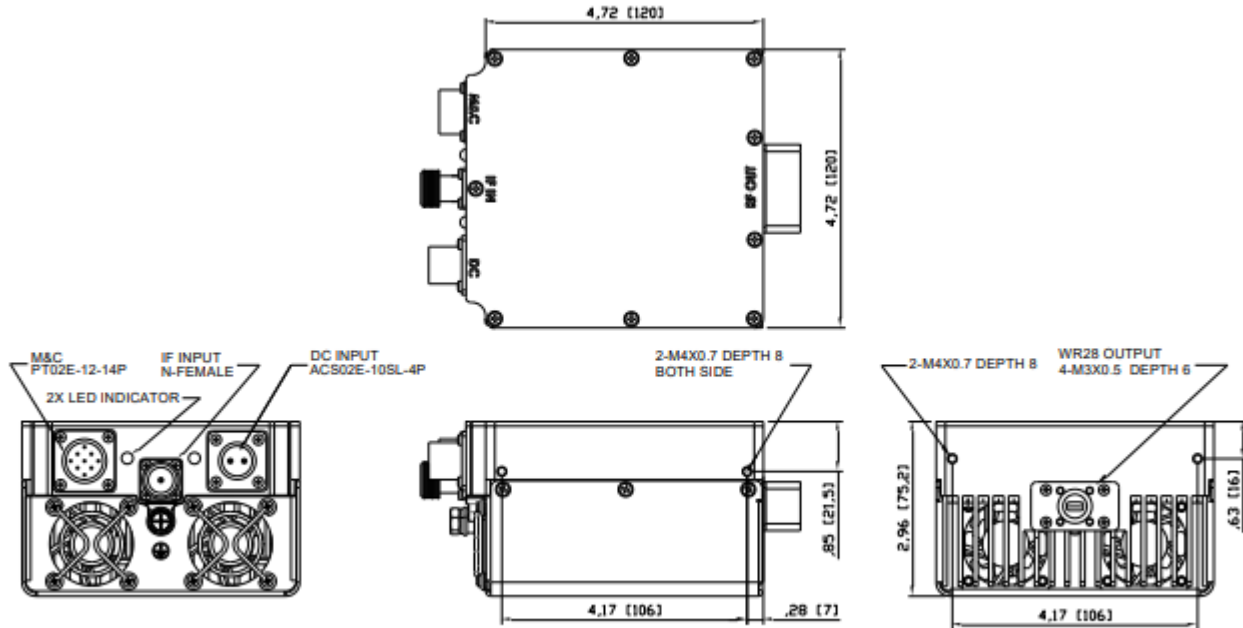
Model: GLKA5LON

| Section | Item | Specification |
|---------|----------------------------|---------------------------------|
| Band 1 | Input (GHz) | 17.20 - 18.20 |
| | Output (MHz) | 950 - 1950 |
| | L.O (GHz), Switching | 16.25 @13+/-1V |
| Band 2 | Input (GHz) | 18.20 - 19.20 |
| | Output (MHz) | 950 - 1950 |
| | L.O (GHz), Switching | 17.25 @13+/-1V /22KHz |
| Band 3 | Input (GHz) | 19.20 - 20.20 |
| | Output (MHz) | 950 - 1950 |
| | L.O (GHz), Switching | 18.25 @18+/-1V |
| Band 4 | Input (GHz) | 20.20 - 21.20 |
| | Output (MHz) | 950 - 1950 |
| | L.O (GHz), Switching | 19.25 @18+/-1V /22KHz |
| Band 5 | Input (GHz) | 21.20 - 22.20 |
| | Output (MHz) | 950 - 1950 |
| | L.O (GHz), Switching | 20.25 @22+/-1V |
| | Noise figure (@+25°C) | 2.7 dB max. (with isolator) |
| | Input VSWR | 1.5 : 1 max. (with isolator) |
| | Conversion gain | 60 dB typ. (55dB min, 65dB max) |
| | Output VSWR | 2.2 : 1 max. |
| | Gain flatness | 4 dBp-p max. (each band) |
| | Gain ripple (@ 40MHz) | 1.5 dBp-p max. |
| | 1dB gain compression point | +10 dBm min. |
| | Output impedance | 50, 75 ohms (option) |
| | Leakage (@ input port) | -60 dBm max. |
| | L.O stability (over temp.) | Depends on external reference |

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| | |
|------------------------|---|
| Phase noise | Depends on external reference |
| | 40 dBc min. @L.O 16.25 GHz |
| Image rejection | 25 dBc min. @L.O 17.25 GHz |
| | 0 dBc min. @L.O 18.25, 19.25, 20,25 GHz |
| Power supply | +12 to +24V DC |
| Required current | 500 mA max. |
| Operating temperature | -40°C to +60°C |
| Storage temperature | -40°C to +80°C |
| Relative humidity | 0% to 100% RH |
| Input waveguide flange | WR- 42 grooved |
| IF output connector | N-type, F-type female (option) |
| Weight | 550 g |

Mechanical Diagram (Unit: inch (mm))



RG-SPEC-014A3

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