



Ka Band LNB

TTI-LNB-KA-1921-A

Ka Band Dualband Low Noise Block for satellite communications

TECHNICAL SPECIFICATIONS

ELECTRICAL

| | |
|-----------------------------------|---|
| Input frequency band | 19.2 - 21.2 GHz |
| Output frequency band | 1 - 2 GHz |
| Local Oscillator | 18.2 GHz / 19.2 GHz |
| Output Spectrum | Not inverted |
| Noise Figure | <1.5 dB @23 °C |
| Gain | > 60 dB (typ) |
| Gain flatness over full bandwidth | ± 1.5 dB in full band 2 GHz (typ) |
| Gain stability over temperature | ± 2 dB in full band 2 GHz (constant frequency) |
| Gain stability | ± 1 dB 24 hours (constant temperature) |
| P1dB | >10 dBm |
| OIP3 | >20 dBm |
| Input VSWR | 1.6:1 (typ) (2:1 Max) |
| Output VSWR | <1.6:1 (typ) |
| Spurious at P1dB | < -60 dBc |
| External Reference | 10 MHz, 0 dBm ±3 dB (via IF Output Connector) |
| Power Supply Voltage | 12-28 VDC (supplied through IF Output Connector) |
| Power consumption | <250 mA @15 VDC |

INTERFACES & PHYSICAL

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|---|------------------|
| Input RF connector | WR-42 |
| Output RF connector | N (f), 50 Ω |
| DC connector | PT02A8-2P |
| Dimensions (Output connector excluded) | 105 x 44 x 40 mm |
| Weight | <250 g |

ENVIRONMENTAL CHARACTERISTICS

| | |
|-----------------------|------------------|
| Operating temperature | -30 °C to 55 °C |
| Storage temperature | -40 °C to +85 °C |
| Humidity | 100% Condensing |



Key Features

- Low noise figure
- High reliability
- Superior performance

The Ka-band Dualband LNB (switchable) Series are the Low Noise Blocks which converts the satellite signal from Ka band to L band (1-2 GHz). The equipment has a minimum gain of 60 dB, and a noise figure lower than 1.5 dB. It provides a combination of superior performance, reliability and cost effectiveness.