

Model No: LNB-MMDS-LB -NA **Low Noise Block Downconverter**

Stand alone Low Noise Block Downconverter - Low Band

Feature

- **Frequency Band 2500 – 2700 MHz with Customer selectable Low Band IF frequency**
- **Customer selectable LO frequency, 2278 MHz and others available**
- **Gain: 28+/-2 dB.**



Overview

The Trackcom Systems International Inc. LNB Down Converter electronics are broadband 2.5-2.7 GHz requiring only the choice of LO frequency for a specific Customer IF frequency output in the Low Band.

Overall Specification for MMDS LNB Down Converter – Low Band

| Parameter | Description |
|----------------------|-------------------------------|
| DownConverter | Low Band |
| RF input frequency | 2500 – 2686 MHz |
| IF Output | 222-408 MHz (LO=2278 MHz) |
| Gain | 26-30 dB |
| Gain Flatness | 1.5 dB or 0.25dB/6MHz channel |
| Noise Figure | 1.5dB |
| OP1 | 14 dBm |
| Image rejection | ≥ 50 dB |
| PCS rejection | ≥ 100 dB |
| WCS rejection | ≥ 50dBc |
| LO Leakage RF-port | <-75 dBm |
| LO Leakage IF-port | ≤ -50 dBm |

| | |
|-------------------------|-----------------------------|
| LO Phase Noise: | |
| @ 100Hz | -80dBc |
| @ 1KHz | -92 dBc |
| @10KHz | -93 dBc |
| @100KHz | -95 dBc |
| @1 MHz | -120 dBc |
| LO Stability | < +/-30KHz (-40°C to 70°C) |
| IF Output Impedance | 75 Ohms |
| Spurious in IF band | <-100 dBm |
| DC Input voltage | 12V to 24V |
| Output VSWR | 1.5:1 |
| Environmental Operating | -40°C to 70°C |
| Environmental Storage | -40°C to 80°C |
| Physical Dimensions | 150x86x50.6 mm |

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