



# LNB KA-BAND EXT REF 9000X-4



### TYPICAL SPECIFICATIONS

|   |   |
|---|---|
| <b>Noise Figure</b>                                   | 1.6 dB max  |
| <b>LO Stability</b>                                   | Phase Locked to External Reference                          |
| <b>Phase Noise</b><br>(Depends on External Reference) | -70 dBc at 1 kHz<br>-80 dBc at 10 kHz<br>-95 dBc at 100 kHz |
| <b>Gain</b>   | 60 dB typ., 55 dB min.<br>@ full frequency band             |
| <b>Output P1dB</b>                                    | +5 dBm min  |
| <b>DC Power</b>                                       | +12V to +24V DC   |

|                              |   |
|------------------------------|---|
| <b>Current</b>               | 400 mA  |
| <b>Input (waterproof)</b>    | WR-42 waveguide                               |
| <b>Output (waterproof)</b>   | F-connector (75 ohm)<br>N (Optional) (50 ohm) |
| <b>Dimensions</b>            | 118 x 60 x 45 (L x W x H)                     |
| <b>Weight</b>                | 450 g   |
| <b>Operating Temperature</b> | -30 ~ +60°C                                   |
| <b>Storage Temperature</b>   | -40 ~ +80°C                                   |
| <b>Ext Ref Frequency</b>     | 10 MHz (sine-wave), -5 to +5 dBm              |

### FREQUENCY BANDS AVAILABLE

| Frequency Bands        | 9000XA-4        | 9000XB-4        | 9000XC-4        | 9000XD-4        | 9000XE-4        |
|------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| <b>Input Frequency</b> | 18.2 ~ 19.2 GHz | 19.2 ~ 20.2 GHz | 20.2 ~ 21.2 GHz | 21.2 ~ 22.2 GHz | 17.2 ~ 18.2 GHz |
| <b>LO Frequency</b>    | 17.25 GHz       | 18.25 GHz       | 19.25 GHz       | 20.25 GHz       | 16.25 GHz       |
| <b>IF Frequency</b>    | 950 ~ 1950 MHz  | 950 ~ 1950 MHz  | 950 ~ 1950 MHz  | 950 ~ 1950 MHz  | 950 ~ 1950 MHz  |

### HOW TO ORDER

## 9000XAN-4



N - Optional N-Connector

- A: 18.2-19.2 GHz
- B: 19.2-20.2 GHz
- C: 20.2-21.2 GHz
- D: 21.2-22.2 GHz
- E: 17.2-18.2 GHz

Version 4

### MECHANICAL DIAGRAM

