

# 9000XBN-2

## 9000X-2 Ka-Band Ext Ref LNB

**Frequency:** B: 19.20 - 20.20 GHz

**W/G Isolator:** No

**Output Connector:** N: 50 Ohm



## KEY SPECIFICATIONS

|                         |                                   |
|-------------------------|-----------------------------------|
| Band                    | Ka-Band                           |
| External Ref Freq       | 10 MHz (sine-wave), - 5 to +5 dBm |
| Input Frequency Band 1  | 19.20 - 20.20 GHz                 |
| LO Frequency 1          | 18.25 GHz                         |
| LO Stability            | 10MHz Ext Ref                     |
| LO Type                 | EXT                               |
| Noise Figure Max        | 1.6 dB                            |
| Noise Figure Typ        | 1.5 dB                            |
| Number Of Onboard Los   | Single-Band                       |
| Output Frequency Band 1 | 950 - 1950 MHz                    |

## RF SPECIFICATIONS

|                                |                               |
|--------------------------------|-------------------------------|
| Conversion Gain Max            | 65 dB                         |
| Conversion Gain Min            | 55 dB                         |
| Conversion Gain Typ            | 60 dB                         |
| Gain Flatness (over Full Band) | 4 dB p-p max.                 |
| Image Rejection                | 40 dBc min.                   |
| Input VSWR                     | 2.5 : 1 max.                  |
| Output P1db                    | + 5 dBm min.                  |
| Output VSWR                    | 2.5 : 1 max.                  |
| Phase Noise 1khz Offset Max    | Depends on External Reference |
| Phase Noise 10khz Offset Max   | Depends on External Reference |
| Phase Noise 100khz Offset Max  | Depends on External Reference |

## ELECTRICAL SPECIFICATIONS

|                     |                |
|---------------------|----------------|
| Current Consumption | 350 mA max.    |
| Power Requirements  | +12 to +24V DC |

## INTERFACE SPECIFICATIONS



## Innovative Communication Solutions

|                    |                         |
|--------------------|-------------------------|
| IF Connector       | N-Connector             |
| Isolator           | No Isolator             |
| RF Input Connector | WR-42 waveguide grooved |

## M and C SPECIFICATIONS

|                |      |
|----------------|------|
| Led Indicators | None |
|----------------|------|

## ENVIRONMENTAL SPECIFICATIONS

|                         |              |
|-------------------------|--------------|
| IP Rating               | IP 67        |
| Temperature Operational | -40 to +60°C |

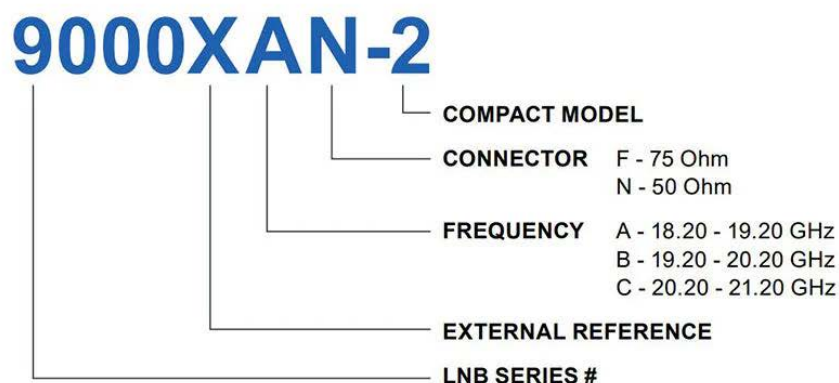
## PHYSICAL SPECIFICATIONS

|                |         |
|----------------|---------|
| Product Height | 42.2 mm |
| Product Length | 98.7 mm |
| Product Weight | 0.27 kg |
| Product Width  | 42.4 mm |

## LOGISTICS SPECIFICATIONS

| HS Code    | Country of Origin             | Ex Works             | ECCN Number | Unit Package              |
|------------|-------------------------------|----------------------|-------------|---------------------------|
| 8517690000 | Made in the Republic of Korea | Richmond, BC, Canada | EAR99       | 130 x 50 x 50 mm   0.3 kg |

## HOW TO ORDER

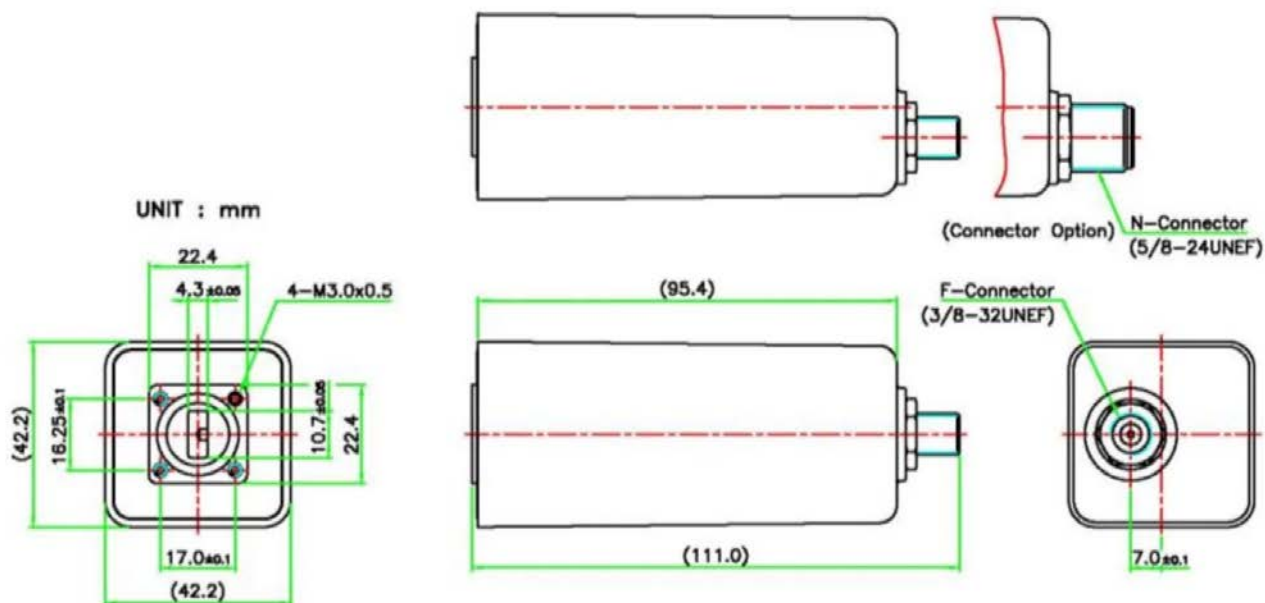


## MECHANICAL DIAGRAMS



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