

# 9500HDN-4

## 9500 Single Band Ka-Band PLL LNB

**Frequency:** D: 21.2-22.2 GHz

**W/G Isolator:** No

**Output Connector:** N: 50 Ohm



## KEY SPECIFICATIONS

|                         |                   |
|-------------------------|-------------------|
| Band                    | Ka-Band           |
| Input Frequency Band 1  | 20.20 - 21.20 GHz |
| LO Frequency 1          | 20.25 GHz         |
| LO Stability            | ±50 kHz           |
| LO Type                 | PLL               |
| Noise Figure Max        | 1.8 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        |
| Input VSWR                    | 2.5 : 1 max. |
| Output P1db                   | + 5 dBm min. |
| Output VSWR                   | 2.5 : 1 max. |
| Phase Noise 100khz Offset Max | -95 dBc/Hz   |

## ELECTRICAL SPECIFICATIONS

|                    |                |
|--------------------|----------------|
| Power Requirements | +12 to +24V DC |
|--------------------|----------------|

## INTERFACE SPECIFICATIONS

|                    |                         |
|--------------------|-------------------------|
| 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°C to +60°C

Temperature Storage

-40 to +80°C

### PHYSICAL SPECIFICATIONS

Product Height

45 mm

Product Length

120 mm

Product Weight

0.42 kg

Product Width

60 mm

### LOGISTICS SPECIFICATIONS

HS Code

Country of Origin

Ex Works

ECCN Number

Unit Package

Made in the Republic of  
Korea

Richmond, BC, Canada

EAR99

145 x 95 x 65 mm | 0.48  
kg

### HOW TO ORDER

## 9200HIAN-4

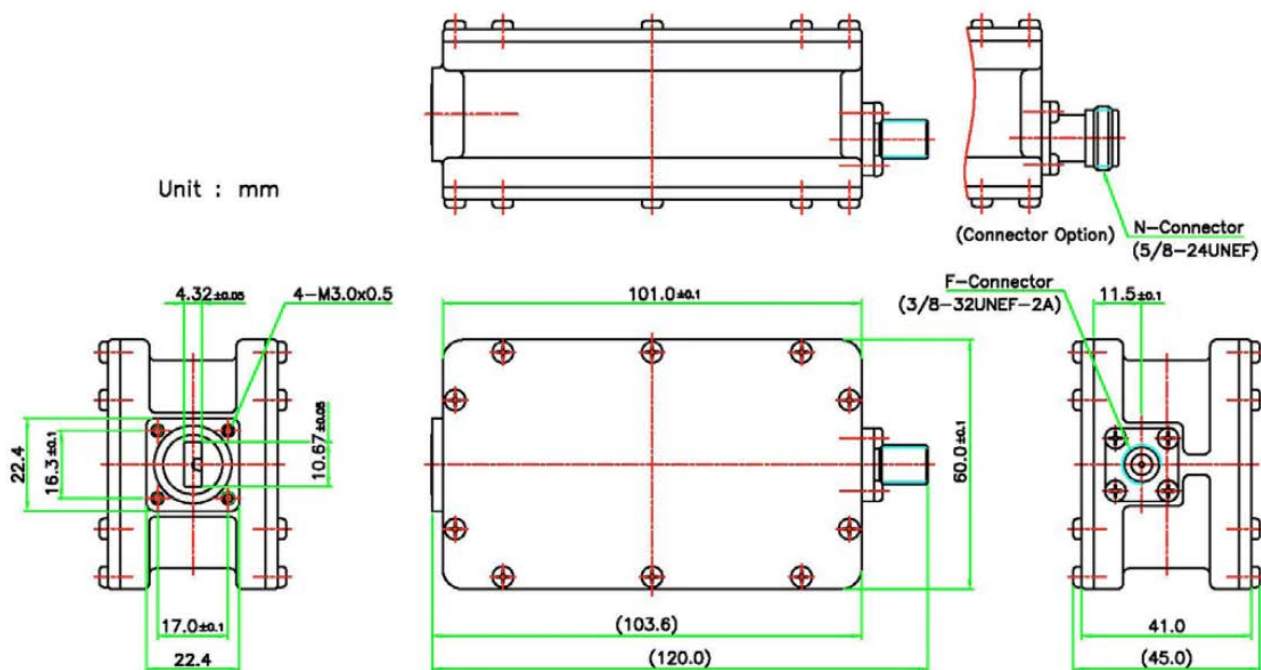
|                |                                                                                                            |
|----------------|------------------------------------------------------------------------------------------------------------|
| CONNECTOR      | F: 75 Ohm<br>N: 50 Ohm                                                                                     |
| FREQUENCY      | A: 18.2 - 19.2 GHz<br>B: 19.2 - 20.2 GHz<br>C: 20.2 - 21.2 GHz<br>D: 21.2 - 22.2 GHz<br>E: 17.2 - 18.2 GHz |
| W/G ISOLATOR   | BLANK: No isolator<br>I: With Isolator                                                                     |
| REFERENCE      | H: Internal<br>X: External                                                                                 |
| L.O. STABILITY | 2: ± 25 kHz<br>5: ± 50 kHz                                                                                 |
| LNB SERIES #   |                                                                                                            |

### MECHANICAL DIAGRAMS



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