

# 9500HBCN

## 9500 Dual-Band Ka-Band PLL LNB

**Frequency:** BC: 19.2 - 20.2 | 20.2 - 21.2 GHz

**W/G Isolator:** No

**Output Connector:** N: 50 Ohm



## KEY SPECIFICATIONS

|                                |                   |
|--------------------------------|-------------------|
| <b>Band</b>                    | Ka-Band           |
| <b>Input Frequency Band 1</b>  | 19.20 - 20.20 GHz |
| <b>Input Frequency Band 2</b>  | 20.20 - 21.20 GHz |
| <b>LO Frequency 1</b>          | 18.25 GHz         |
| <b>LO Frequency 2</b>          | 19.25 GHz         |
| <b>LO Stability</b>            | ±50 kHz           |
| <b>LO Type</b>                 | PLL               |
| <b>Noise Figure Max</b>        | 1.6 dB            |
| <b>Noise Figure Typ</b>        | 1.5 dB            |
| <b>Number Of Onboard Los</b>   | Dual-Band         |
| <b>Output Frequency Band 1</b> | 950 - 1950 MHz    |
| <b>Output Frequency Band 2</b> | 950 - 1950 MHz    |

## RF SPECIFICATIONS

|                                       |               |
|---------------------------------------|---------------|
| <b>Control Signal 1</b>               | 13V / No Tone |
| <b>Control Signal 2</b>               | 18V / No Tone |
| <b>Conversion Gain Max</b>            | 65 dB         |
| <b>Conversion Gain Min</b>            | 55 dB         |
| <b>Conversion Gain Typ</b>            | 60 dB         |
| <b>Gain Flatness (over Full Band)</b> | ≤ 5 dB p-p    |
| <b>Input VSWR</b>                     | 2.3 : 1 max.  |
| <b>Output P1db</b>                    | + 5 dBm min.  |
| <b>Output VSWR</b>                    | 2.3 : 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

## 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

122.1 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

118 x 60 x 45 mm | 0.4  
kg

## HOW TO ORDER

# 9200HIABN

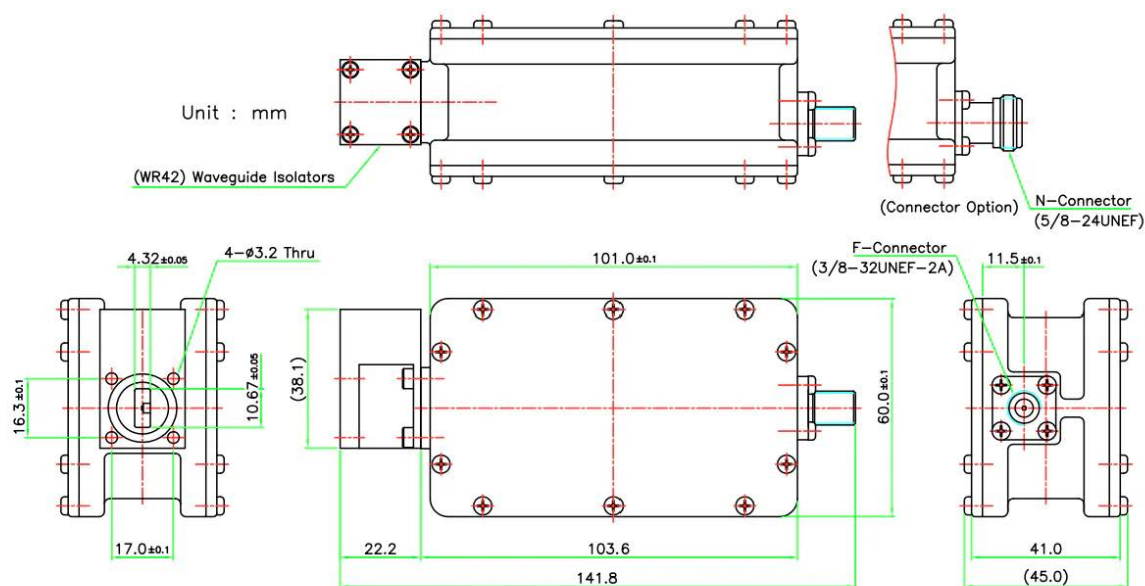
|                |                                                                                                                         |
|----------------|-------------------------------------------------------------------------------------------------------------------------|
| CONNECTOR      | F: 75 Ohm<br>N: 50 Ohm                                                                                                  |
| FREQUENCY      | AB: 18.2 - 19.2 GHz & 19.2 - 21.2 GHz<br>BC: 19.2 - 20.2 GHz & 20.2 - 21.2 GHz<br>CD: 20.2 - 21.2 GHz & 21.2 - 22.2 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<br>7: ± 70 kHz                                                                               |
| LNB SERIES #   |                                                                                                                         |

## MECHANICAL DIAGRAMS



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