



# 9500HIBN-4

## 9500 Single-Band Ka-Band PLL LNB

Frequency: B: 19.2-20.2 GHz

W/G Isolator: Yes

Connector: N-50 Ohm



## KEY SPECIFICATIONS

|                         |                   |
|-------------------------|-------------------|
| Band                    | Ka-Band           |
| Input Frequency Band 1  | 19.20 - 20.20 GHz |
| LO Frequency 1          | 18.25 GHz         |
| LO Stability            | ±50 kHz           |
| LO Type                 | PLL               |
| Noise Figure Max        | 1.3 dB            |
| Noise Figure Typ        | 1.6 dB            |
| 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        |
| Output P1db                   | + 5 dBm min. |
| Output VSWR                   | 2.0 : 1 max. |
| Phase Noise 100khz Offset Max | -95 dBc/Hz   |
| Phase Noise 10khz Offset Max  | -80 dBc/Hz   |
| Phase Noise 1khz Offset Max   | -70 dBc/Hz   |

## ELECTRICAL SPECIFICATIONS

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

## INTERFACE SPECIFICATIONS

|                    |                         |
|--------------------|-------------------------|
| Isolator           | With Isolator           |
| RF Input Connector | WR-42 waveguide grooved |





## ENVIRONMENTAL SPECIFICATIONS

|                         |              |
|-------------------------|--------------|
| Temperature Operational | -40 to +60°C |
| Temperature Storage     | -40 to +80°C |

## PHYSICAL SPECIFICATIONS

|                            |                  |
|----------------------------|------------------|
| Product Dimensions (LxWxH) | 120 x 60 x 45 mm |
| Product Weight             | 420 g (14.82 oz) |

## LOGISTICS SPECIFICATIONS

| HS Code    | Country of Origin | Ex Works | ECCN Number | Unit Package            |
|------------|-------------------|----------|-------------|-------------------------|
| 8517690000 | Made in Korea     | Korea    | EAR99       | 145 x 95 x 65 mm   480g |

## HOW TO ORDER

### 9200HIAN-4

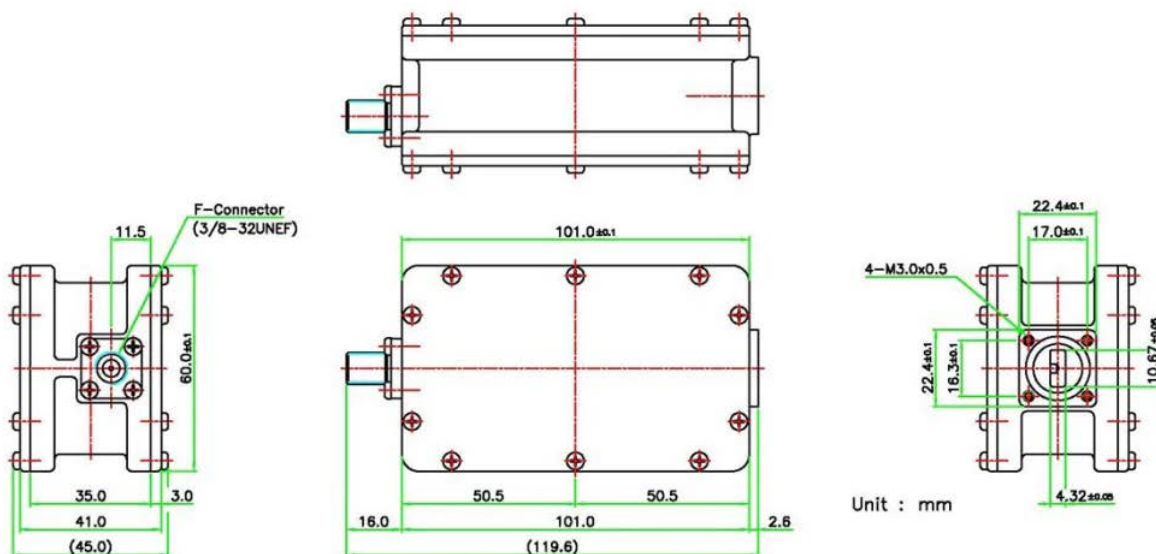
|                |  |
|----------------|--|
| CONNECTOR      | F: 75 Ohm<br>N: 50 Ohm   |
| FREQUENCY      | A: 18.2 - 19.2 GHz<br>B: 19.2 - 20.2 GHz<br>C: 20.2 - 21.2 GHz<br>D: 21.2 - 22.2 GHz<br>E: 17.2 - 18.2 GHz |
| W/G ISOLATOR   | BLANK: No isolator<br>I: With Isolator   |
| REFERENCE      | H: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

## MECHANICAL DIAGRAMS



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