

# 9500HICDF

## 9500 Dual-Band Ka-Band PLL LNB

**Frequency:** CD: 20.2 - 21.2 | 21.2 - 22.2 GHz

**W/G Isolator:** Yes

**Output Connector:** F: 75 Ohm



## KEY SPECIFICATIONS

<b>Band</b>	Ka-Band
<b>Input Frequency Band 1</b>	20.20 - 21.20 GHz
<b>Input Frequency Band 2</b>	21.20 - 22.20 GHz
<b>LO Frequency 1</b>	19.25 GHz
<b>LO Frequency 2</b>	20.25 GHz
<b>LO Stability</b>	±50 kHz
<b>LO Type</b>	PLL
<b>Noise Figure Max</b>	1.8 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>	1.5 : 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

F-Connector

Isolator

With Isolator

RF Input Connector

WR-42 waveguide grooved

## ENVIRONMENTAL SPECIFICATIONS

IP Rating

IP 67

Temperature Operational

-40 to +60°C

Temperature Storage

-40 to +80°C

## PHYSICAL SPECIFICATIONS

Product Height

45 mm

Product Length

141.8 mm

Product Weight

0.465 kg

Product Width

60 mm

## LOGISTICS SPECIFICATIONS

HS Code

Country of Origin

Ex Works

ECCN Number

Unit Package

Made in Korea

Richmond, BC, Canada

EAR99

118 mm x 60 mm x 45 mm | 0.4 kg

## HOW TO ORDER

# 9200HIABN

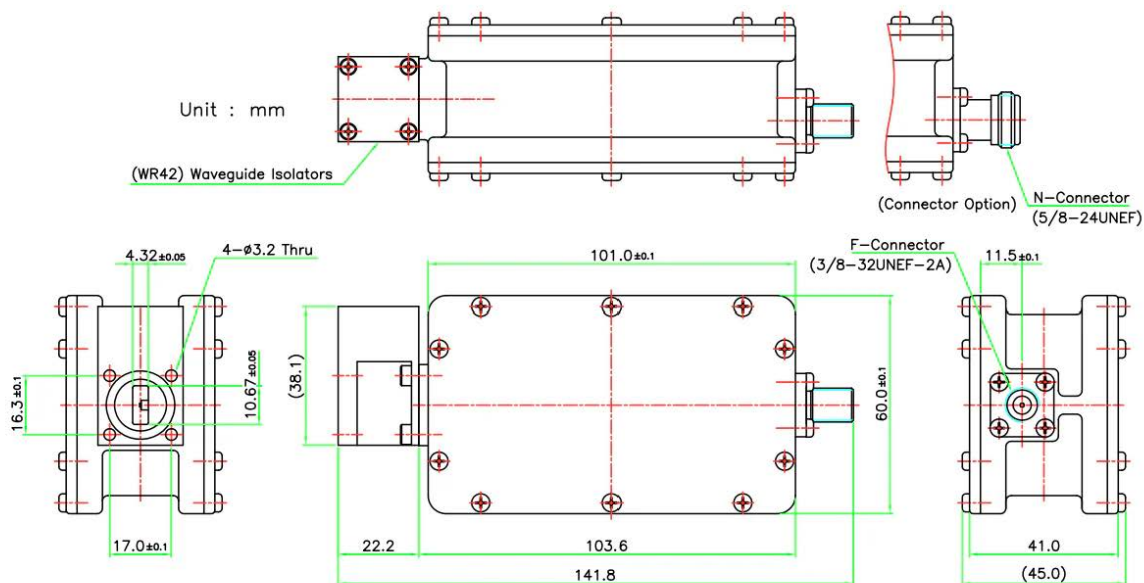
CONNECTOR	F: 75 Ohm N: 50 Ohm
FREQUENCY	AB: 18.2 - 19.2 GHz & 19.2 - 21.2 GHz BC: 19.2 - 20.2 GHz & 20.2 - 21.2 GHz CD: 20.2 - 21.2 GHz & 21.2 - 22.2 GHz
W/G ISOLATOR	BLANK: No isolator I: With Isolator
REFERENCE	H: Internal X: External
L.O. STABILITY	2: ± 25 kHz 5: ± 50 kHz 7: ± 70 kHz
LNB SERIES #	

## MECHANICAL DIAGRAMS



Norsat  
International Inc.

Innovative Communication Solutions



Norsat  
International Inc.

ESATCOM  
INC

Esatcom Inc  
Norsat authorized distributor  
[www.esatcom.com](http://www.esatcom.com)

Tel  
718.799.0084

Email  
[sales@esatcom.com](mailto:sales@esatcom.com)