

# 9700HCDN

## 9700 Dual-Band Ka-Band PLL LNB

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

**W/G Isolator:** No

**Connector:** N: 50 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>	±70 kHz
<b>LO Type</b>	PLL
<b>Noise Figure Max</b>	1.5 dB
<b>Noise Figure Typ</b>	1.8 dB
<b>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>	2.5 : 1 max.
<b>Output P1db</b>	+ 5 dBm min.



## Innovative Communication Solutions

Output VSWR	2.5 : 1 max.
Phase Noise 100khz Offset Max	-95 dBc/Hz
Phase Noise 10khz Offset Max	-78 dBc/Hz
Phase Noise 1khz Offset Max	-70 dBc/Hz

## ELECTRICAL SPECIFICATIONS

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

## INTERFACE SPECIFICATIONS

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	N/A   N/A

## 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 #	

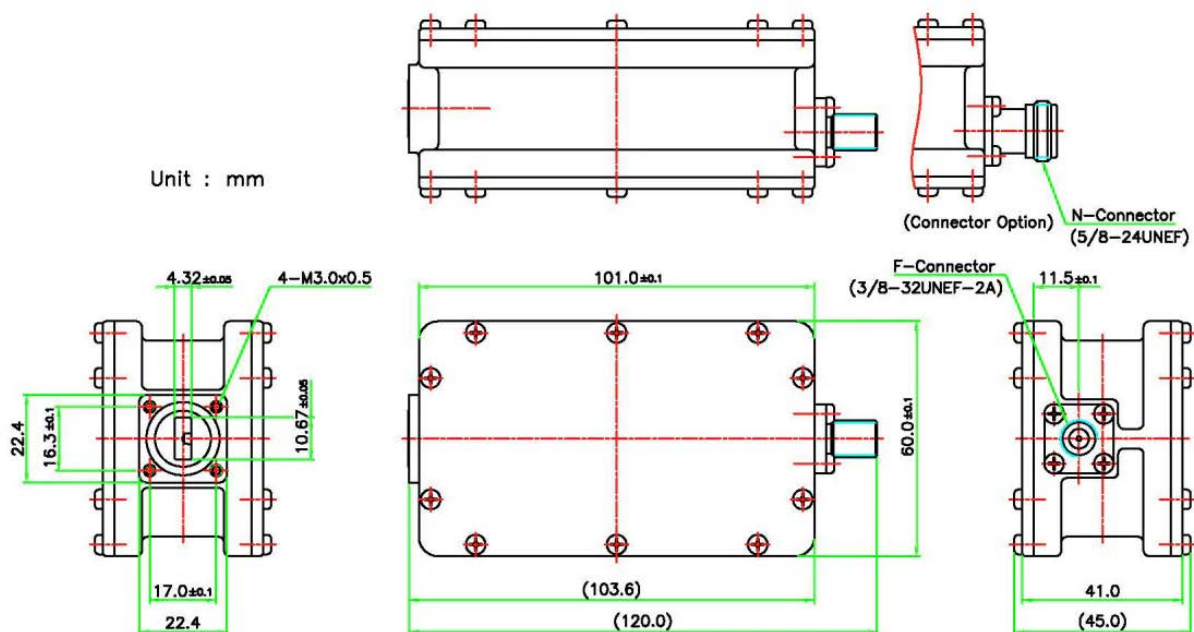
## MECHANICAL DIAGRAMS





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)

