

# 9200HT-3F

## 9000 Triple-Band Ka-Band PLL LNB

**Connector:** F: 75 Ohm

Norsat's Low Noise Blocks (LNBs) provide signal reception for satellite communications around the world. We offer premium performance and reliability in the smallest form factor possible. All of our standard Ka-Band LNBs are backed by a 3 year warranty and nearly forty years of experience as the industry's leading provider of high performance LNBs. 9000HT-3 Series.



## KEY SPECIFICATIONS

<b>Band</b>	Ka-Band
<b>Input Frequency Band 1</b>	17.30 - 18.30 GHz
<b>Input Frequency Band 2</b>	18.30 - 19.30 GHz
<b>Input Frequency Band 3</b>	19.30 - 20.30 GHz
<b>LO Frequency 1</b>	16.35 GHz
<b>LO Frequency 2</b>	17.35 GHz
<b>LO Frequency 3</b>	18.35 GHz
<b>LO Stability</b>	±25 kHz
<b>LO Type</b>	PLL
<b>Noise Figure Max</b>	2.0 dB
<b>Noise Figure Typ</b>	1.6 dB
<b>Number Of Onboard Los</b>	Triple-Band
<b>Output Frequency Band 1</b>	950 - 1950 MHz
<b>Output Frequency Band 2</b>	950 - 1950 MHz
<b>Output Frequency Band 3</b>	950 - 1950 MHz
<b>Tone Frequency</b>	22 kHz ± 4 kHz

## RF SPECIFICATIONS

<b>Control Signal 1</b>	13V / No Tone
<b>Control Signal 2</b>	18V / No Tone
<b>Control Signal 3</b>	13V / 22kHz Tone
<b>Conversion Gain Max</b>	70 dB
<b>Conversion Gain Min</b>	58 dB

Conversion Gain Typ	65 dB
Gain Flatness	±2 dB max.
Image Rejection	40 dBc min.
Input VSWR	2.5 : 1 max.
Output P1db	+ 5 dBm min.
Output VSWR	2.0 : 1 max.
Phase Noise 1khz Offset Max	-70 dBc/Hz
Phase Noise 10khz Offset Max	-80 dBc/Hz
Phase Noise 100khz Offset Max	-90 dBc/Hz
Spurious	-60 dBc (in band) ; -50 dBc (out of band)

## ELECTRICAL SPECIFICATIONS

Current Consumption	400 mA
Power Requirements	+11 to +26V DC

## INTERFACE SPECIFICATIONS

IF Connector	F-Connector
RF Input Connector	WR-42 waveguide grooved

## M and C SPECIFICATIONS

Led Indicators	None
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## ENVIRONMENTAL SPECIFICATIONS

IP Rating	IP 67
Temperature Operational	-40°C to +60°C
Temperature Storage	-40 to +80°C

## PHYSICAL SPECIFICATIONS

Product Height	39 mm
Product Length	133 mm
Product Weight	0.5 kg
Product Width	70 mm

## LOGISTICS SPECIFICATIONS

HS Code	Country of Origin	Ex Works	ECCN Number	Unit Package
8517690000	Made in the Republic of Korea	Richmond, BC, Canada	EAR99	133 x 70 x 44 mm   0.5 kg

## HOW TO ORDER



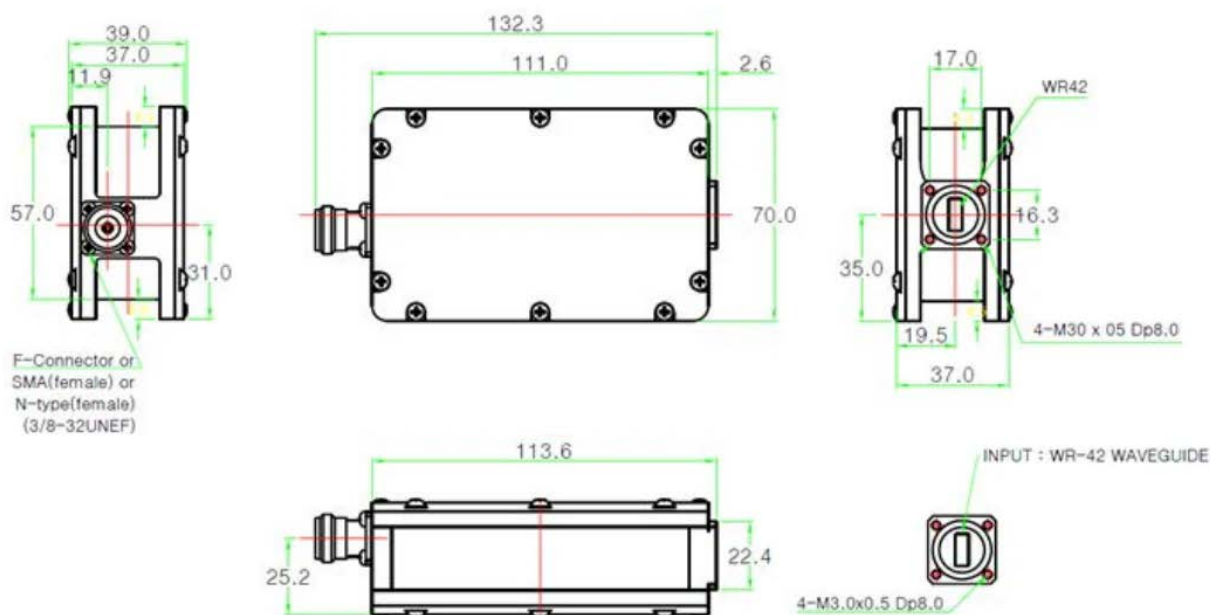
Norsat  
International Inc.

Innovative Communication Solutions

## 9200HT-3F

CONNECTOR	F - 75 Ohm N - 50 Ohm
FREQUENCY	Band 1 & 2 & 3
INTERNAL REFERENCE	
L.O. STABILITY	2: $\pm 25$ kHz
LNB SERIES #	

### MECHANICAL DIAGRAMS



Norsat  
International Inc.

ESATCOM  
INC

Norsat authorized distributor

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