

# 9000LAN

## 9000 Single Band Ka-Band DRO LNB

**Frequency:** A: 18.2 - 19.2 GHz

**W/G Isolator:** No

**Output Connector:** N: 50 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. 9000L Series.



## KEY SPECIFICATIONS

<b>Band</b>	Ka-Band
<b>Input Frequency Band 1</b>	18.20 - 19.20 GHz
<b>LO Frequency 1</b>	17.25 GHz
<b>LO Stability</b>	±2 MHz
<b>LO Type</b>	DRO
<b>Noise Figure Max</b>	1.5 dB
<b>Noise Figure Typ</b>	1.2 dB
<b>Number Of Onboard Los</b>	Single-Band
<b>Output Frequency Band 1</b>	950 - 1950 MHz

## RF SPECIFICATIONS

<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 max.
<b>Gain Flatness Ripple</b>	≤ 5 dB p-p
<b>Input VSWR</b>	2.5 : 1 max.
<b>Output P1db</b>	+ 3 dBm min.
<b>Output VSWR</b>	2.5 : 1 max.
<b>Phase Noise 100khz Offset Max</b>	-95 dBc/Hz

## ELECTRICAL SPECIFICATIONS

<b>Current Consumption</b>	200 mA
<b>Power Requirements</b>	+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	-30°C to +60°C
Temperature Storage	-40 to +80°C

### PHYSICAL SPECIFICATIONS

Product Height	42 mm
Product Length	111 mm
Product Weight	0.3 kg
Product Width	42 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	140 x 50 x 50 mm   0.3 kg

### HOW TO ORDER

## 9000LAN

**CONNECTOR** F - 75 Ohm  
N - 50 Ohm

**FREQUENCY** A: 18.2-19.2 GHz  
B: 19.2-20.2 GHz  
C: 20.2-21.2 GHz  
D: 21.2-22.2 GHz

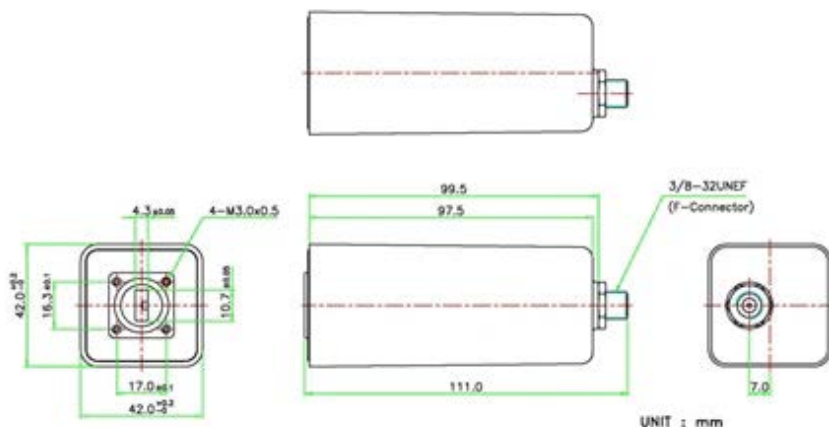
**LNB SERIES #**

### MECHANICAL DIAGRAMS



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INC

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