



**Norsat**  
International Inc.

Innovative Communication Solutions

# LNB

## KA-BAND EXT REF

### 9000X-4

#### SPECIFICATIONS

<b>Noise Figure</b>	1.6 dB max. at room temp. @ CF
<b>L.O. Stability</b>	Phase Locked to External Reference
<b>Phase Noise (SSB) max.</b>	-70 dBc at 1 kHz -80 dBc at 10 kHz -95 dBc at 100 kHz
<b>Input VSWR</b>	2.5 : 1 max.
<b>Output VSWR</b>	2.5 : 1 max.
<b>Gain</b>	60 dB typ., 55 dB min.
<b>Gain Flatness</b> (over full band)	≤ 4 dB p-p
<b>Output P1dB</b>	+5 dBm min.



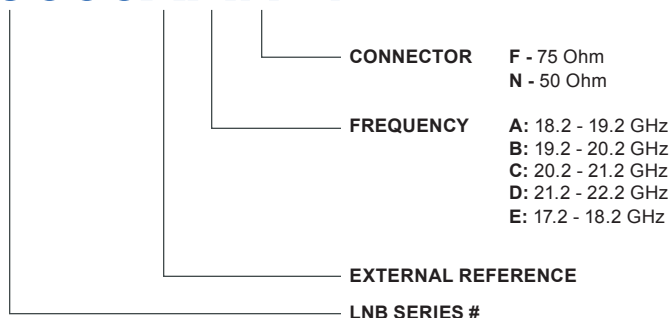
<b>DC Power</b>	+12V to +24V DC
<b>Current</b>	400 mA max.
<b>Input (waterproof)</b>	WR-42 waveguide grooved
<b>Output (waterproof)</b>	F-Connector (75 ohm) N-Connector (50 ohm)
<b>Dimensions (L x W x H)</b>	118mm x 60mm x 45mm (4.64in x 2.36in x 1.77in)
<b>Weight</b>	450 g (15.87 oz)
<b>Operating Temperature</b>	-30 to +60°C
<b>Storage Temperature</b>	-40 to +80°C
<b>External Ref Freq</b>	10 MHz (sine-wave), -5 to +5 dBm

#### FREQUENCY BANDS

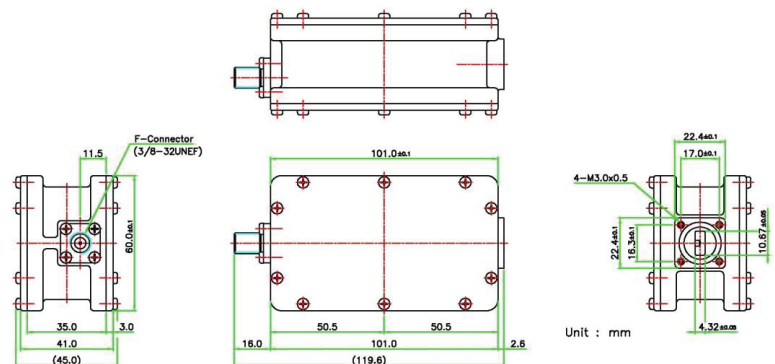
	9000XA-4	9000XB-4	9000XC-4	9000XD-4	9000XE-4
<b>Frequency Band (GHz)</b>	18.2 - 19.2	19.2 - 20.2	20.2 - 21.2	21.2 - 22.2	17.2 - 18.2
<b>L.O. Frequency (GHz)</b>	17.25	18.25	19.25	20.25	16.25
<b>IF Frequency (MHz)</b>	950 - 1950	950 - 1950	950 - 1950	950 - 1950	950 - 1950

#### HOW TO ORDER

### 9000XAN-4



#### MECHANICAL DIAGRAM



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