



**Norsat**  
International Inc.

Innovative Communication Solutions

# LNB

## KA-BAND DUAL BAND AUTO-REF 9000HX-O3B-ABS

### SPECIFICATIONS

|                                          |                                                     |
|------------------------------------------|-----------------------------------------------------|
| <b>Noise Figure</b>                      | 1.2dB typ., 1.5 dB max. at room temp. @ CF          |
| <b>L.O. Stability</b>                    | ± 25 KHz in PLL mode<br>if no 10MHz Ext Ref present |
| <b>Phase Noise (SSB) max.</b>            | -60dBc @ 100Hz<br>-70dBc @ 1KHz<br>-80dBc @ 10KHz   |
| <b>Input VSWR</b>                        | 2.0 : 1 max.                                        |
| <b>Output VSWR</b>                       | 2.0 : 1 max.                                        |
| <b>Gain</b>                              | 58 dB typ., 55 dB min., 65 dB max.                  |
| <b>Gain Flatness</b><br>(over full band) | ≤ 5 dB p-p                                          |
| <b>Output P1dB</b>                       | + 5 dBm min.                                        |



|                               |                                                         |
|-------------------------------|---------------------------------------------------------|
| <b>DC Power</b>               | + 11V to + 26V DC<br>(See below for Band Select)        |
| <b>Current</b>                | 350 mA max.                                             |
| <b>Input (waterproof)</b>     | WR-42 waveguide grooved                                 |
| <b>Output (waterproof)</b>    | F-Connector (75 Ohm)<br>N-Connector (50 Ohm)            |
| <b>Dimensions (L x W x H)</b> | 104 mm x 60 mm x 39 mm<br>(4.09 in x 2.36 in x 1.53 in) |
| <b>Weight</b>                 | 400 g (14.11 oz)                                        |
| <b>Operating Temperature</b>  | - 40 to + 60°C                                          |
| <b>Storage Temperature</b>    | - 40 to + 80°C                                          |
| <b>External Ref Freq</b>      | 10 MHz (sine-wave), -10 to 0 dBm                        |

### FREQUENCY BANDS

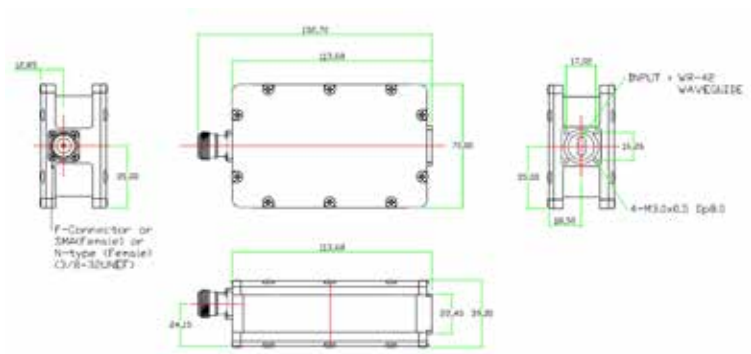
|                             | <b>BAND-A</b><br>(13V) | <b>BAND-B</b><br>(18V) |
|-----------------------------|------------------------|------------------------|
| <b>Frequency Band (GHz)</b> | 17.852 - 18.588        | 18.372 - 19.300        |
| <b>L.O. Frequency (GHz)</b> | 16.8                   | 17.4                   |
| <b>IF Frequency (MHz)</b>   | 1052 - 1788            | 972 - 1900             |

### HOW TO ORDER

## 9000HX-O3B-ABS

**CONNECTOR** F - 75 Ohm  
N - 50 Ohm  
**LNB SERIES #**

### MECHANICAL DIAGRAM



**Norsat**  
International Inc.

**ESATCOM**  
INC

Norsat authorized distributor

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