

# 9000SHDCIN

## 9000 Ka-Simultaneous Dual Band PLL LNB

**Frequency Bands:** 19.2 - 20.2 GHz & 20.2 - 21.2 GHz

**W/G Isolator:** Yes

**Power Connector:** N Connector



## KEY SPECIFICATIONS

|                         |                   |
|-------------------------|-------------------|
| Band                    | Ka-Band           |
| Input Frequency Band 1  | 19.20 - 20.20 GHz |
| Input Frequency Band 2  | 20.20 - 21.20 GHz |
| LO Frequency 1          | 18.25 GHz         |
| LO Frequency 2          | 19.25 GHz         |
| LO Stability            | ±10 kHz           |
| Noise Figure Typ        | 1.7 dB            |
| Output Frequency Band 1 | 950 - 1950 MHz    |
| W/g Isolator            | Yes               |

## RF SPECIFICATIONS

|                                |                  |
|--------------------------------|------------------|
| Conversion Gain Max            | 65 dB            |
| Conversion Gain Min            | 55dB             |
| Conversion Gain Typ            | 60 dB            |
| Gain Flatness (over Any 36mhz) | 1 dB p-p         |
| Gain Flatness (over Full Band) | 4 dB p-p         |
| Image Rejection                | 40 dBc min.      |
| Input VSWR                     | 1.5 : 1 max.     |
| Output P1db                    | 5 dBm min.       |
| Output VSWR                    | 2.2 : 1 max.     |
| Phase Noise 100hz Offset Max   | -125 dBc/Hz max. |
| Phase Noise 100khz Offset Max  | -95 dBc/Hz       |



## Innovative Communication Solutions

|                              |            |
|------------------------------|------------|
| Phase Noise 10khz Offset Max | -80 dBc/Hz |
| Phase Noise 1khz Offset Max  | -70 dBc/Hz |

## ELECTRICAL SPECIFICATIONS

|                    |                |
|--------------------|----------------|
| IF Connector       | N Connector    |
| Power Requirements | +12 to +24V DC |

## INTERFACE SPECIFICATIONS

|                    |       |
|--------------------|-------|
| RF Input Connector | WR 42 |
|--------------------|-------|

## ENVIRONMENTAL SPECIFICATIONS

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

## PHYSICAL SPECIFICATIONS

|                            |                        |
|----------------------------|------------------------|
| Product Dimensions (LxWxH) | 38.4 x 78.4 x 159.2 mm |
| Product Weight             | 750 g                  |

## LOGISTICS SPECIFICATIONS

| HS Code    | Country of Origin | Ex Works | ECCN Number | Unit Package             |
|------------|-------------------|----------|-------------|--------------------------|
| 8517690000 | Made in Korea     | Korea    | EAR99       | 160 x 80 x 40 mm   750 g |

## HOW TO ORDER

### 9000SHDAIF

|                   |              |                                                                                                                                                              |
|-------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LNB SERIES        | CONNECTOR    | F: 75 Ohm<br>N: 50 Ohm<br>S: SMA 50 Ohm                                                                                                                      |
| Simultaneous Band | W/G ISOLATOR | BLANK: No isolator<br>I: With Isolator                                                                                                                       |
|                   | FREQUENCY    | A: 17.2 - 18.2 GHz & 18.2 - 19.2 GHz<br>B: 18.2 - 19.2 GHz & 19.2 - 20.2 GHz<br>C: 19.2 - 20.2 GHz & 20.2 - 21.2 GHz<br>D: 20.2 - 21.2 GHz & 21.2 - 22.2 GHz |
|                   | BAND TYPE    | D: Dual<br>T: Triple<br>U: Quad                                                                                                                              |
|                   | REFERENCE    | H: Internal<br>X: External                                                                                                                                   |

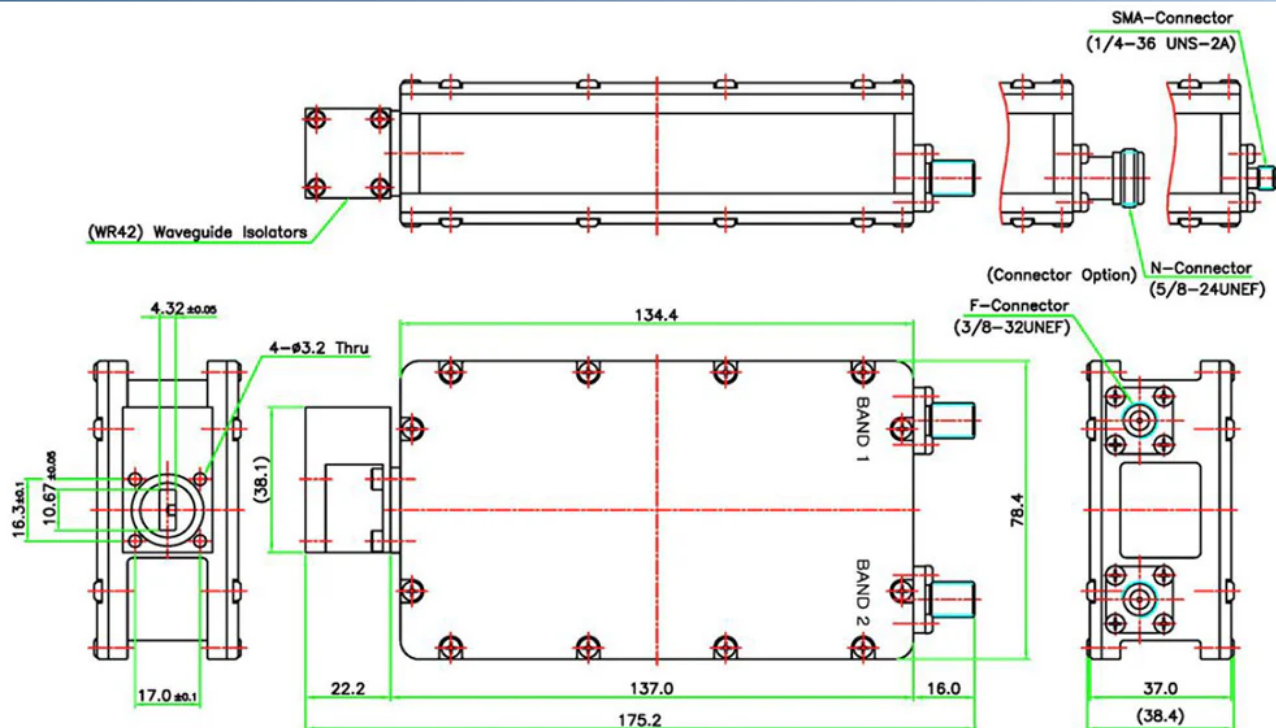
## MECHANICAL DIAGRAMS





Norsat  
International Inc.

Innovative Communication Solutions



Esatcom Inc  
Norsat authorized distributor  
[www.esatcom.com](http://www.esatcom.com)

Tel  
718.276.0800

Email  
[sales@esatcom.com](mailto:sales@esatcom.com)

