

# HS1048AN

## 1000 Ku-Band Single Band PLL LNB

L.O Stability:  $\pm 4$  kHz

Noise Figure: 0.8 dB

Output Connector: N: 50 Ohm



## KEY SPECIFICATIONS

|                         |                   |
|-------------------------|-------------------|
| Band                    | Ku-Band           |
| Input Frequency Band 1  | 11.70 - 12.20 GHz |
| LO Frequency 1          | 10.75 GHz         |
| LO Stability            | $\pm 4$ kHz       |
| LO Type                 | PLL               |
| Noise Figure Max        | 0.9 dB            |
| Noise Figure Typ        | 0.8 dB            |
| Number Of Onboard Los   | Single-Band       |
| Output Frequency Band 1 | 950 - 1450 MHz    |

## RF SPECIFICATIONS

|                                |                 |
|--------------------------------|-----------------|
| Conversion Gain Max            | 65 dB           |
| Conversion Gain Min            | 55 dB           |
| Conversion Gain Typ            | 60 dB           |
| Gain Flatness (over Full Band) | $\leq 5$ dB p-p |
| Input VSWR                     | 2.5 : 1 max.    |
| Output P1db                    | + 4 dBm min.    |
| Output VSWR                    | 2.2 : 1 max.    |
| Phase Noise 100khz Offset Max  | -90 dBc/Hz      |

## ELECTRICAL SPECIFICATIONS

|                     |                |
|---------------------|----------------|
| Current Consumption | 300 mA max.    |
| Power Requirements  | +12 to +24V DC |

## INTERFACE SPECIFICATIONS

|                    |                         |
|--------------------|-------------------------|
| IF Connector       | N-Connector             |
| RF Input Connector | WR-75 waveguide grooved |

## M and C SPECIFICATIONS



Led Indicators

None

## ENVIRONMENTAL SPECIFICATIONS

Temperature Operational

-40 to +60°C

Temperature Storage

-40 to +60°C

## PHYSICAL SPECIFICATIONS

Product Height

42 mm

Product Length

110 mm

Product Weight

0.3 kg

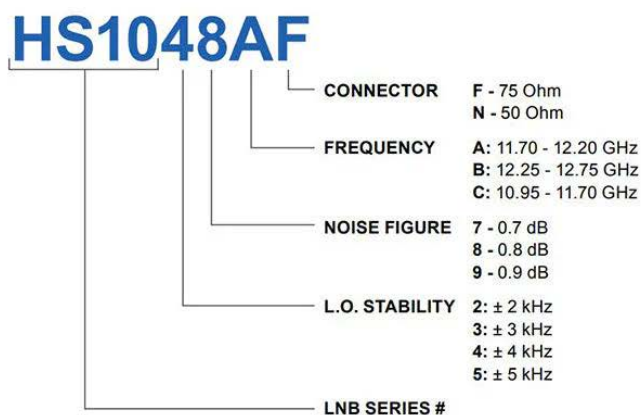
Product Width

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 |

## HOW TO ORDER



## MECHANICAL DIAGRAMS



Norsat  
International Inc.

Innovative Communication Solutions



**ESATCOM**  
INC

Norsat authorized distributor

**Esatcom Inc.**

3628 Francis Lewis Blvd.

Flushing, NY 11358

[www.esatcom.com](http://www.esatcom.com)

Tel: 718.799.0084

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