

# HS1029AN

## 1000 Ku-Band Single Band PLL LNB

L.O Stability:  $\pm 2$  kHz

Noise Figure: 0.9 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            | $\pm 2$ kHz       |
| LO Type                 | PLL               |
| Noise Figure Max        | 1.0 dB            |
| Noise Figure Typ        | 0.9 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

# HS1048AF

CONNECTOR

F - 75 Ohm  
N - 50 Ohm

FREQUENCY

A: 11.70 - 12.20 GHz  
B: 12.25 - 12.75 GHz  
C: 10.95 - 11.70 GHz

NOISE FIGURE

7 - 0.7 dB  
8 - 0.8 dB  
9 - 0.9 dB

L.O. STABILITY

2: ± 2 kHz  
3: ± 3 kHz  
4: ± 4 kHz  
5: ± 5 kHz

LNB SERIES #

## MECHANICAL DIAGRAMS



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