

# 1209HAF

## 1000 Ku-Band Single Band PLL LNB

**L.O Stability:** 2:  $\pm 25$  kHz

**Noise Figure:** 0.9 dB

**Output Connector:** F: 75 Ohm



## KEY SPECIFICATIONS

|                         |                   |
|-------------------------|-------------------|
| Band                    | Ku-Band           |
| Input Frequency Band 1  | 11.70 - 12.20 GHz |
| LO Frequency 1          | 10.75 GHz         |
| LO Stability            | $\pm 25$ 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) | $\leq 4$ dB p-p |
| Input VSWR                     | 2.5 : 1 max.    |
| Output P1db                    | + 5 dBm min.    |
| Output VSWR                    | 2.2 : 1 max.    |
| Phase Noise 100khz Offset Max  | -95 dBc/Hz      |

## ELECTRICAL SPECIFICATIONS

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

## INTERFACE SPECIFICATIONS

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



### M and C SPECIFICATIONS

|                |      |
|----------------|------|
| Led Indicators | None |
|----------------|------|

### ENVIRONMENTAL SPECIFICATIONS

|                         |                |
|-------------------------|----------------|
| IP Rating               | IP 67          |
| Temperature Operational | -40°C to +60°C |
| Temperature Storage     | -40 to +80°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 |

### MECHANICAL DIAGRAMS

