



# 25 KHz Stability Ku-Band PLL LNB

## KEY FEATURES

- ◆ Input frequency 10.70 - 12.75 GHz
- ◆ Dual L.O. 9.75 GHz and 10.6 GHz
- ◆ +/- 25 KHz L.O. Stability
- ◆ Gain 60 dB typ.
- ◆ "N" or "F" RF interface options
- ◆ Noise figure 0.7 dB typ.

## AL2L0025 / AL2L0025N



| Frequency Band  | Band 1                         | Band 2          |
|-----------------|--------------------------------|-----------------|
| Input Frequency | 10.70-11.70 GHz                | 11.70-12.75 GHz |
| IF Frequency    | 950-1,950 MHz                  | 1,100-2,150 MHz |
| L.O.            | 9.75 GHz                       | 10.6 GHz        |
| L.O. Control    | Switchable by 13V/18V or 22kHz |                 |

## General Specification

|                       |                          |                           |               |
|-----------------------|--------------------------|---------------------------|---------------|
| Conversion gain       | 60 dB typ.               | Gain Variation Over Temp. | 4 dB p-p max. |
| Input VSWR            | 2.2 : 1 typ.             | Output VSWR               | 2.2 : 1 typ.  |
| IF connector          | "F" or "N" - type female | IF impedance              | 75 or 50 ohms |
| RF interface          | WR - 75 Grooved          | Leakage                   | -55 dBm max.  |
| Phase noise           | -75 dBc/Hz@10KHz         | Noise figure              | 0.7 dB max.   |
|                       | -85 dBc/Hz@100KHz        | L.O. stability            | 25 KHz        |
|                       | -100 dBc/Hz@1MHz         | Ext. ref. input           | N/A           |
| Power supply          | +13 - +24 VDC            | Current                   | 300 mA max.   |
| Operating temperature | -40C - +60C              | Storage temperature       | -40C - + 80C  |
| Dimensions (mm)       | 111.5 x 60 x 41.6        | Weight (g)                | 380           |

## Mechanical Drawing

