



# C-Band PLL LNB +/- 5KHz

## KEY FEATURES

- ◆ +/- 5KHz Stability
- ◆ Smallest package size and weight
- ◆ RoHS Compliant
- ◆ Three-year Warranty

## ALS50005 / ALS50005N



## Specifications

|                                 |                          |                                 |   |
|---------------------------------|--------------------------|---------------------------------|---|
| Input Frequency                 | 3.4 - 4.2 GHz            | Output Frequency                | 950 - 1750MHz                                 |
| Conversion gain                 | 62 dB (typ), 66 dB (max) | Gain flatness                   | 4dB p-p over full temp                        |
| Input VSWR                      | 2.5 : 1                  | Output VSWR                     | 2.5: 1 typ.                                   |
| Local Frequency                 | 5.15GHz                  | L.O. stability over temp        | +/- 5KHz (1ppm)                               |
| IF connector                    | F or N- type female      | IF impedance                    | 75 or 50 ohms                                 |
| RF interface                    | WR - 229 Grooved         | Stabilization and Start up Time | 1 min (max)                                   |
| Phase noise                     | See below                | Noise Temp. @ 25 deg. C         | 15K Typ., 20K max.                            |
| Output 1 dB compression point   | + 5dBm min.              | Gain Ripple                     | +/- 0.75dB (40MHz)                            |
| Spurious In-Band (No Signal)    | -140dBm max.             | Spurious In-Band @-10dBm Output | -55dBm (max)                                  |
| Ext. ref. input (10MHz)         | IF output connector      | Image Rejection                 | -40dBc (min)                                  |
| L.O. Leakage at Waveguide Input | -50dBm max.              | Output L.O. Leakage             | -40dBm (max)                                  |
| Power supply                    | +12 - +24 VDC            | Current                         | 300 mA (max)                                  |
| Phase Noise                     | -70 dBc/Hz @ 100Hz       | Storage temperature             | -50C - + 80C                                  |
|                                 | -80 dBc/Hz @ 1KHz        | Weight (g)                      | 500   |
|                                 | -85 dBc/Hz @ 10KHz       | Operating temperature           | -40C - +60C                                   |
|                                 | -95 dBc/Hz @ 100KHz      | Dimensions (mm) (L/W/H)         | 93.3 x 99.6 x 71.5 (F) 95.3 x 99.6 x 71.5 (N) |

## Mechanical Drawing

