



# 500KHz Stability C-Band DRO LNB

## KEY FEATURES

- ◆ +/- 500KHz Stability
- ◆ Smallest package size and weight
- ◆ Lowest Noise Temp. and Phase Noise
- ◆ RoHS Compliant
- ◆ Three-year Warranty

## ALS50500 / ALS50500N



## Specifications

|                                 |                          |                                 |                                       |
|---------------------------------|--------------------------|---------------------------------|---------------------------------------|
| Input Frequency                 | 3.4- 4.2GHz              | 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        | +/- 500KHz                            |
| IF connector                    | F or N- type female      | IF impedance                    | 75or 50ohms                           |
| RF interface                    | WR - 229Grooved          | Stabilization and Start up Time | 1min (max)                            |
| Phase noise                     | See below                | Noise Temp. @25deg. C           | 15KTyp., 20K max.                     |
| Output 1 dB compression point   | +5dBmmin.                | Gain Ripple                     | +/- 0.75dB (40MHz)                    |
| Spurious In-Band (No Signal)    | -140dBmmax.              | Spurious In-Band @-10dBmOutput  | -55dBm(max)                           |
| Ext. ref. input (10MHz)         | IF output connector      | Image Rejection                 | -40dBc(min)                           |
| L.O. Leakage at Waveguide Input | -50dBmmax.               | Output L.O. Leakage             | -40dBm(max)                           |
| Power supply                    | +12- +24VDC              | Current                         | 200mA(max)                            |
| Phase Noise                     | -70dBc/Hz @100Hz         | Storage temperature             | -50C- +80C                            |
|                                 | -80dBc/Hz @1KHz          | Weight (g)                      | 500                                   |
|                                 | -85dBc/Hz @10KHz         | Operatingtemperature            | -40C- +60C                            |
|                                 | -95dBc/Hz @100KHz        | Dimensions (mm) (L/W/H)         | 93.3x99.6x 71.5(F) 95.3x99.6x 71.5(N) |

## Mechanical Drawing

