



# External Reference Ku-Band LNB

## KEY FEATURES

- ◆ External reference
- ◆ Smallest package size and weight
- ◆ N / F connector options (50/75 ohms)
- ◆ RoHS compliant
- ◆ Three year warranty

**AL1X / AL2X / AL3X / AL4X**



| Model | RF Frequency    | IF Frequency   | L.O.      |
|-------|-----------------|----------------|-----------|
| AL1X  | 10.95-11.70 GHz | 950 - 1700 MHz | 10.00 GHz |
| AL2X  | 11.70-12.20 GHz | 950 - 1450 MHz | 10.75 GHz |
| AL3X  | 12.2-12.7 GHz   | 950 - 1450 MHz | 11.25 GHz |
| AL4X  | 12.25-12.75 GHz | 950 - 1450 MHz | 11.30 GHz |

## Specifications

|                       |                          |                     |                   |
|-----------------------|--------------------------|---------------------|-------------------|
| Conversion gain       | 60 dB typ.               | Gain flatness       | 4 dB p-p max.     |
| Input VSWR            | 2.5 : 1 typ.             | Output VSWR         | 2.5 : 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           | Ext. ref. dependent      | Noise figure        | 0.8 - 0.9 dB max. |
| L.O. stability        | Locked ext. ref.         | Ext. ref. frequency | 10 MHz            |
| Ext. ref. input       | IF output connector      | Ext. ref. level     | -10 to 0 dBm      |
| Power supply          | +12 - +24 VDC            | Current             | 280 mA max.       |
| Operating temperature | -40C - +60C              | Storage temperature | -50C - + 80C      |
| Dimensions (mm)       | 107 x 60 x 40            | Weight (g)          | 380               |

## Mechanical Drawing

