



- Frequency Range 11.7 - 12.2 GHz
- L.O stability Depends on ext. ref.
- Power supply +12 to +24V DC



## Low Noise Block Ku-Band PLL Ext. Ref. 12X (LNB)

Model: GLKU12X

### Specifications

| Parameter                              | Specification                                                        |
|----------------------------------------|----------------------------------------------------------------------|
| Input Freq.                            | 11.7 - 12.2 GHz                                                      |
| Output Freq.                           | 950 – 1450 MHz                                                       |
| L.O Freq.                              | 10.75 GHz                                                            |
| Noise figure                           | 0.9 dB max                                                           |
| Conversion gain at -40 to +60°C        | 60 dB typ. (55dB min. 65dB max.)                                     |
| Gain flatness                          | 4 dBp-p max.                                                         |
| Gain flatness at -40 to +60°C          | 5 dBp-p max.                                                         |
| Gain ripple at per 27MHz, -30 to +60°C | 1 dBp-p max.                                                         |
| L.O stability at -40 to +60°C          | depends on ext. ref.                                                 |
| Image rejection                        | 40 dBc min.                                                          |
| Phase noise                            | -70 dBc/Hz (@ 1KHz)<br>-80 dBc/Hz (@ 10KHz)<br>-95 dBc/Hz (@ 100KHz) |
| Output P1dB                            | +5 dBm min.                                                          |
| Ext. ref. input freq. & power          | 10 MHz, -5 to +5 dBm                                                 |
| Ext. ref. input port                   | IF output connector                                                  |
| Input VSWR                             | 2.5: 1 max                                                           |
| Output VSWR                            | 2.5: 1 max                                                           |
| Input waveguide flange                 | WR-4275                                                              |
| Output connector                       | F, N -type female (option)                                           |
| Power supply                           | +12 to +24V DC                                                       |
| Required current                       | 350 mA max.                                                          |
| Operating temperature                  | -40 to +60°C                                                         |
| Waterproof                             | IP 67                                                                |
| Dimension (exclude connector)          | 60.0 x 41.6 x 111.5 mm                                               |
| Weight                                 | 380 g                                                                |

# Mechanical Diagram (Unit: inch (mm))

