

LNB PLL DUAL LO: 9.75 + 10.60 V.2



Ku-band LNB PLL dual LO 9.75 10.6 v.2 is Low Noise Block Down Converter with dual local oscillator 9.75 GHz and 10.6 GHz and dual 50 Ohm N-type output. LO instability: ± 2.5 ppm, Gain: 55 dB, Noise figure: 0.8 dB, Output power P1dB: 0 dBm.

Ku-band LNB PLL dual LO 9.75 10.6 v.2 is Low Noise Block Down Converter which is designed for RF signals gaining and transforming from Ku-band to L-band (intermediate frequencies). The Ku-band LNB PLL dual LO 9.75 10.6 has a waterproof case. Ku-band LNB PLL dual LO 9.75 10.6 could be mounted in close proximity to antenna. Ku-band LNB PLL dual LO 9.75 10.6 v.2 has input flange PBR120 and could be used with regular RRL or receiving antennas.

KEY FEATURES:

- Dual independent output (**LB** and **HB**)
- Flange PBR120 input
- Output power P1dB: 0 dBm
- Input frequencies:
LB: 10.7 – 11.7 GHz, **HB:** 11.7 – 12.75 GHz
- Output frequencies:
LB: 950 – 1950 MHz, **HB:** 1100 – 2150 MHz
- Min. gain: 55 dB typ.
- LO stability (over temp.): ± 2.5 ppm
- Operating temp.: -30 ... +60
- Oscillator type: PLL

Input parameters:

| | |
|-----------------------|---------------------------------------|
| Input Frequency range | LB: 10.7-11.7 GHz; HB: 11.7-12.75 GHz |
| Input level, max | -60 dBm |
| Input VSWR, max | 2 |
| Input interface | Waveguide WR75, Flange PBR120 |

Local Oscillator:

| | |
|-----------------|---------------------------------------|
| LO frequency | LB: 9.75 GHz; HB: 10.6 GHz |
| LO Phase noise: | |
| @1 kHz | -73 dBc/Hz |
| @10 kHz | -83 dBc/Hz |
| @100 kHz | -95 dBc/Hz |
| LO instability | ± 2 ppm (± 1 ppm by request) |

Output parameters:

| | |
|------------------------|-------------------------------------|
| Output frequency range | LB: 950-1950 MHz; HB: 1100-2150 MHz |
| Output Power @P1dB | 0 dBm |
| Gain, min | 55 dB |
| Output interface | N-type female |
| Output impedance | 50 Ohm |
| Output VSWR, max | 2 |

Frequency Response:

| | |
|-------------------------|------------|
| Flatness over Full Band | ± 2 dB |
|-------------------------|------------|

| | |
|--------------------------|-----------------------------|
| Flatness over 27MHz Band | ±0.75 dB |
| Spurious: | |
| Noise Figure (@+25) | 0.8 dB max |
| LO leakage, max | -50 dBm |
| Image rejection, min | 50 dBc |
| Power supply: | |
| Input voltage | 13 – 18 VDC, nominal 18 VDC |
| Power consumption, max | 3.9 W |
| Environmental: | |
| Operating temperature | -30 to +60 (-22 to +140) |
| Storage temperature | -30 to +80 (-22 to +176) |
| Operating humidity | 0% – 95% |
| Mechanical: | |
| Dimensions (W x H x D) | 59x41x144 mm |
| Weight | 0.44 kg |

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Note! All details customer has to confirm in advance during ordering and before payment. Those parameters that were not specified and / or were not agreed while ordering will be implemented as basic at the discretion of the manufacturer. Each our customer has 1.5 year warranty and 7 year aftersales support for whole range of our products.