



## Lnb-kupxx v1



LNB-KuPxx v1 is a PLL LNB with single local oscillator and single 75Ohm F-type output. LO instability  $\pm 25$  kHz, Gain 60dB, Noise figure 0.9 dB, Output power P1dB +3 dBm.

The Low Noise Block Down Converter LNB-KuPxx v1 designed for gain and transform the RF signals from Ku-band to the L-band intermediate frequencies. This block has a waterproof case and could be mounted in close proximity to an antenna. LNB's Parameters correspond to the conditions of MVDS/MITRIS TV broadcasting systems according to standard DVB-S/S2 or DVB-C and could be operates up to 25 carriers. LNB-KuPxx v1 has input flange PBR120 and could be used with regular RRL or receive antennas.

### This LNB could be supplied with next value of Local Oscillator:

- **LO 8.80 GHz IN:** 9.75 - 10.75 GHz **OUT:** 950 - 1950 MHz
- **LO 9.75 GHz IN:** 10.70 - 11.70 GHz **OUT:** 950 - 1950 MHz
- **LO 9.80 GHz IN:** 10.75 - 11.75 GHz **OUT:** 950 - 1950 MHz
- **LO 10.00 GHz IN:** 10.95 - 11.95 GHz **OUT:** 950 - 1950 MHz
- **LO 10.60 GHz IN:** 11.55 - 12.55 GHz **OUT:** 950 - 1950 MHz
- **LO 10.75 GHz IN:** 11.70 - 12.70 GHz **OUT:** 950 - 1950 MHz
- **LO 10.80 GHz IN:** 11.75 - 12.75 GHz **OUT:** 950 - 1950 MHz
- **LO 11.30 GHz IN:** 12.25 - 13.25 GHz **OUT:** 950 - 1950 MHz
- **LO 11.80 GHz IN:** 12.75 - 13.75 GHz **OUT:** 950 - 1950 MHz
- **LO 12.80 GHz IN:** 13.75 - 14.75 GHz **OUT:** 950 - 1950 MHz
- **LO 13.05 GHz IN:** 14.00 - 15.00 GHz **OUT:** 950 - 1950 MHz
- **Or by order**

### KEY FEATURES:

- Flange PBR120 input
- Output power is P1dB +3 dBm
- Input frequencies any 1000 MHz in Ku-band (10 – 15 GHz) by order
- Output frequencies 950 – 1950 MHz
- Min. gain 60 dB
- Oscillator type PLL
- Operates up to 25 carriers
- Designed for operation in MVDS/MITRIS TV broadcasting systems

### Input parameters:

<b>Input Frequency range</b>	11.7– 12.7 GHz (or any 1000 MHz in Ku-band by order)
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<b>Input level, max</b>	-57 dBm
<b>Input VSWR, max</b>	2.2
<b>Input interface</b>	Waveguide WR75, Flange PBR120
<b>Local Oscillator:</b>	
<b>LO frequency</b>	10.75GHz (or by order: 8.8; 9.75; 9.8; 10.0; 10.6; 10.75; 10.8; 11.3; 11.8; 12.8; 13.05 GHz )
<b>LO Phase noise:</b>	
<b>@1 kHz</b>	-75 dBc/Hz
<b>@10 kHz</b>	-85 dBc/Hz
<b>@100 kHz</b>	-95 dBc/Hz
<b>LO instability</b>	± 25 kHz
<b>Output parameters:</b>	
<b>Output frequency range</b>	950 - 1950 (or by order)
<b>Output Power @P1dB</b>	+3 dBm
<b>Gain, min</b>	60 dB
<b>Output interface</b>	F-type female
<b>Output impedance</b>	75 Ohm
<b>Output VSWR, max</b>	2
<b>Frequency Response:</b>	
<b>Flatness over Full Band</b>	±2 dB
<b>Flatness over 27MHz Band</b>	±0.75 dB
<b>Spurious:</b>	
<b>Noise Figure (@+25°C)</b>	0.9 dB max
<b>LO leakage, max</b>	-45 dBm
<b>Image rejection, min</b>	45 dBc
<b>Power Supply:</b>	
<b>Input voltage</b>	12 VDC – 24 VDC, nominal 18 VDC
<b>Power consumption, max</b>	5.25 W
<b>Environmental:</b>	
<b>Operating temperature</b>	-30°C to +60°C (-22°F to +140°F)
<b>Storage temperature</b>	-40°C to +80°C (-40°F to +176°F)
<b>Operating humidity</b>	0% - 95%
<b>Mechanical</b>	
<b>Dimensions (W x H x D)</b>	60x42x126 mm
<b>Weight</b>	0.4 kg