Lnb-kupxx v1

LNB-KuPxx v1 is a PLL LNB with single local oscillator and single 75Ohm F-type output. LO instability ± 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 recieve 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:	
Input Frequency range	11.7– 12.7 GHz (or any 1000 MHz in Ku-band by order)
Input level, max	-57 dBm
Input VSWR, max	2.2
Input interface	Waveguide WR75, Flange PBR120
Local Oscilator:	
LO frequency	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)
LO Phase noise:	
@1 kHz	-75 dBc/Hz
@10 kHz	-85 dBc/Hz
@100 kHz	-95 dBc/Hz
LO instability	± 25 kHz
Output parameters:	
Output frequency range	950 - 1950 (or by order)
Output Power @P1dB	+3 dBm
Gain, min	60 dB
Output interface	F-type female
Output impedance	75 Ohm
Output VSWR, max	2
Frequency Response:	

Flatness over Full Band	±2 dB
Flatness over 27MHz Band	±0.75 dB
Spurious:	
Noise Figure (@+25°C)	0.9 dB max
LO leakage, max	-45 dBm
Image rejection, min	45 dBc
Power Supply:	
Input voltage	12 VDC – 24 VDC, nominal 18 VDC
Power consumption, max	5.25 W
Environmental:	
Operating temperature	-30°C to +60°C (-22°F to +140°F)
Storage temperature	-40°C to +80°C (-40°F to +176°F)
Operating humidity	0% - 95%
Mechanical	
Dimensions (W x H x D)	60x42x126 mm
Weight	0.4 kg