



## Lnb-kupxxd v1



LNB-KuPxxD v1 is a PLL LNB with dual local oscillator and dual 75Ohm F-type output. LO instability  $\pm 10$  kHz, Gain 55dB, Noise figure 0.8 dB, Output power P1dB +6 dBm.

The Low Noise Block Down Converter LNB-KuPxxD 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-KuPxxD v1 has input flange PBR120 and could be used with regular RRL or receive antennas.

### KEY FEATURES:

- Flange PBR120 input
- Output power is P1dB +6 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
- Dual independent output (LB and HB)
- Min. gain 55 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>	<b>LB:</b> 10.7 – 11.7 GHz <b>HB:</b> 11.7 – 12.75 GHz
<b>Input level, max</b>	-49 dBm
<b>Input VSWR, max</b>	2
<b>Input interface</b>	Waveguide WR75, Flange PBR120
Local Oscillator:	
<b>LO frequency</b>	<b>LB:</b> 9.75; <b>HB:</b> 10.6
<b>LO Phase noise:</b>	
<b>@1 kHz</b>	-73 dBc/Hz
<b>@10 kHz</b>	-83 dBc/Hz
<b>@100 kHz</b>	-95 dBc/Hz
<b>LO instability</b>	$\pm 10$ kHz
Output parameters:	
<b>Output frequency range</b>	<b>LB:</b> 950 – 1950 MHz <b>HB:</b> 1100 – 2150 MHz
<b>Output Power @P1dB</b>	+6 dBm

<b>Gain, min</b>	55 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>	0.8 dB max
<b>LO leakage, max</b>	-50 dBm
<b>Image rejection, min</b>	50 dBc
<b>Power Supply:</b>	
<b>Input voltage</b>	13 VDC - 18 VDC, nominal 18 VDC
<b>Power consumption, max</b>	3.9 W
<b>Environmental:</b>	
<b>Operating temperature</b>	-40°C to +60°C (-40°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>	40x42x169.5 mm
<b>Weight</b>	0.4 kg

*Taking into consideration that we (ROKS PrJSC) are developer and system integrator, also do not stop on our technical growth and improvement, know that view of all our devices and equipment including their technical parameters may be different from pictures presented on website and parameters listed on each device webpage.*

**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.