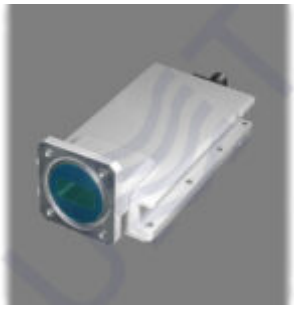
LNB PLL LO 12.80



Ku-band LNB PLL LO 12.80 is Low Noise Block Down Converter with single LO 12.80 GHz and single 75 Ohm F-type output. LO instability: ± 150 kHz, Gain: 45 dB, Noise figure: 0.9 dB, Output power P1dB: +3 dBm.

LNB PLL LO 12.80 is Low Noise Block Down Converter which is designed for RF signals gaining and transforming from Ku-band to L-band (intermediate frequencies). The LNB PLL LO 12.80 has a waterproof case. LNB PLL LO 12.80 can be mounted in close proximity to antenna. LNB parameters correspond to MVDS / MITRIS TV broadcasting systems conditions in accordance with DVB-S/S2 or DVB-C standard and can be operated up to 25 carriers. LNB PLL LO 12.80 has input flange of PBR120 type and can be used with regular RRL or receive antennas.

LO: 12.80 GHz **IN**: 13.75 – 14.75 GHz **OUT**: 950 – 1950 MHz

KEY FEATURES:

- Wide dynamic range (power at the input)
- Input flange: PBR120
- Output power P1dB: +3 dBm
- Input frequencies: 13.75 – 14.75 GHz
- Output frequencies: 950 – 1950 MHz
- Min. gain: 45 dB
- Oscillator type: PLL
- Operates up to 25 carriers
- Designed for operation in MVDS/MITRIS TV broadcasting systems

Input parameters:	
Input Frequency range	13.75 – 14.75 GHz
Input level, max	-57 dBm
Input VSWR, max	2.0
Input interface	Waveguide WR75, Flange PBR120
Local Oscilator:	
LO frequency	12.80 GHz
LO Phase noise:	
@1 kHz	-75 dBc/Hz
@10 kHz	-85 dBc/Hz
@100 kHz	-95 dBc/Hz
LO instability	± 150 kHz
Output parameters:	
Output frequency range	950 – 1950 (or by order)
Output Power @P1dB	+3 dBm
Gain, min	45 dB
Output interface	F-type female
Output impedance	75 Ohm
Output VSWR, max	2.5
Frequency Response:	
Flatness over Full Band	±2 dB

Flatness over 27MHz Band	±0.75 dB
Spurious:	
Noise Figure (@+25)	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 to +60 (-22 to +140)
Storage temperature	-40 to +80 (-40 to +176)
Operating humidity	0% – 95%
Mechanical:	
Dimensions (W x H x D)	60x42x126 mm
Weight	0.4 kg

Taking into consideration that we (UMT LLC) 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.*