

# LNBS

- SINGLE
- TWIN
- QUAD
- QUATRO

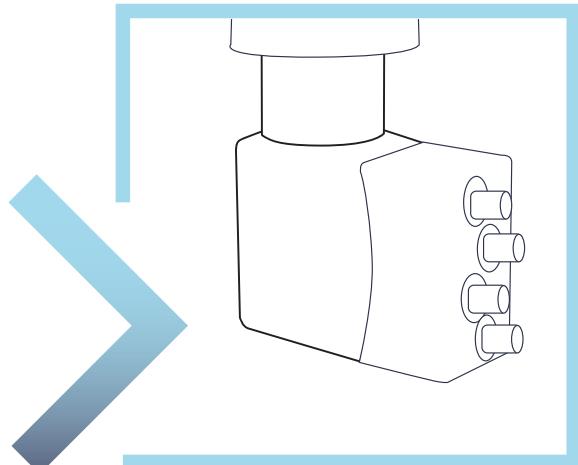


Leading the signal  
all over the world



# LNBs

The LNBs series from Lemco offers ultimate performance and quality. Their small size as well as their extra UV filter on the their plastic case provides excellent protection even if they are operate under the most difficult weather hard conditions.



## Single Ku-band LNB with UV filter

The LNB-101 is a single KU-band LNB of excellent performance. It's UV filter on the cap ensures long time longevity even under hard enviroment conditions while it's small size offer the maximum flexibility.



## LNB-101

### Technical Specifications

Frequency	
Input range (low band)	10.70...11.70 GHz
Input range (high band)	11.70...12.75 GHz
Output range (low band)	950...1950 MHz
Output range (high band)	1100...2150 MHz
L.O. (low band)	9.75 GHz
L.O. (high band)	10.60 GHz
Stability @ +2...5oC	±1.0MHz (Max.)
Stability @ -30...+70oC	±2.0MHz (Max.)
Gain	
Conversion gain	60 dB (Typ.)
Gain flatness	±0.5dB/27MHz
Noise figure	0.3dB (Typ.)
Isolation	
Cross polarization (Min.)	20dB
Electrical	
Impedance	75Ω
L.O. Phase Noise @ 1KHz	-75dBc/Hz
L.O. Phase Noise @ 10KHz	-80dBc/Hz
L.O. Phase Noise @ 100KHz	-90dBc/Hz
Image rejection	40dB (Min.)
Output VSWR	2.0:1 (Typ.)
P1dB	0dBm (Min.)
Band switching (Low):	0Hz
Band switching (High):	22KHz ± 4KHz
POL switching voltage (Low)	10.5...14.0V
POL switching voltage (High)	16.0...20.0V

Connectors	
No of outputs	1
Connector	
	F-female
EAN-13	
Code	5213009761031
General	
Consumption	100mA (Typ.)
Housing material	PVC with UV filter
Operating temperature	0 °C to 40 °C
Storage temperature	-30 °C to +70 °C
Humidity	Up to 90%
Dimensions	52.5 x 38.5 x 28mm
Weight	70gr

## Twin Ku-band LNB with UV filter

The LNB-202 is a twin KU-band LNB of excellent performance. It's UV filter on the cap ensures long time longevity even under hard environment conditions while it's small size offer the maximum flexibility.

## LNB-202

### Technical Specifications

#### Frequency

Input range (low band)	10.70...11.70 GHz
Input range (high band)	11.70...12.75 GHz
Output range (low band)	950...1950 MHz
Output range (high band)	1100...2150 MHz
L.O. (low band)	9.75 GHz
L.O. (high band)	10.60 GHz
Stability @ +2...5°C	±1.0MHz (Max.)
Stability @ -30...+70°C	±2.0MHz (Max.)

#### Gain

Conversion gain	60 dB (Typ.)
Gain flatness	±0.5dB/27MHz
Noise figure	0.3dB (Typ.)

#### Isolation

Cross polarization (Min.)	20dB
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#### Electrical

Impedance	75Ω
L.O. Phase Noise @ 1KHz	-75dBc/Hz
L.O. Phase Noise @ 10KHz	-80dBc/Hz
L.O. Phase Noise @ 100KHz	-90dBc/Hz
Image rejection	40dB (Min.)
Output VSWR	2.0:1 (Typ.)



#### P1dB

Band switching (Low):	0Hz
Band switching (High):	22KHz ± 4KHz
POL switching voltage (Low)	10.5...14.0V
POL switching voltage (High)	16.0...20.0V

#### Connectors

No of outputs	2
Connector	F-female

#### EAN-13

Code	5213009761048
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#### General

Consumption	130mA (Typ.)
Housing material	PVC with UV filter
Operating temperature	0 °C to 40 °C
Storage temperature	-30 °C to +70 °C
Humidity	Up to 90%
Dimensions	52.5 x 38.5 x 28mm
Weight	175gr

## Quad Ku-band LNB with UV filter

The LNB-404 is a Quad KU-band LNB of excellent performance. It's UV filter on the cap ensures long time longevity even under hard environment conditions while it's small size offer the maximum flexibility.

## LNB-404

### Technical Specifications

#### Frequency

Input range (low band)	10.70...11.70 GHz
Input range (high band)	11.70...12.75 GHz
Output range (low band)	950...1950 MHz
Output range (high band)	1100...2150 MHz
L.O. (low band)	9.75 GHz
L.O. (high band)	10.60 GHz
Stability @ +2...5°C	±1.0MHz (Max.)
Stability @ -30...+70°C	±2.0MHz (Max.)

#### Gain

Conversion gain	60 dB (Typ.)
Gain flatness	±0.5dB/27MHz
Noise figure	0.3dB (Typ.)

#### Isolation

Cross polarization (Min.)	20dB
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#### Electrical

Impedance	75Ω
L.O. Phase Noise @ 1KHz	-75dBc/Hz
L.O. Phase Noise @ 10KHz	-80dBc/Hz
L.O. Phase Noise @ 100KHz	-90dBc/Hz
Image rejection	40dB (Min.)
Output VSWR	2.0:1 (Typ.)



#### P1dB

Band switching (Low):	0Hz
Band switching (High):	22KHz ± 4KHz
POL switching voltage (Low)	10.5...14.0V
POL switching voltage (High)	16.0...20.0V

#### Connectors

No of outputs	4
Connector	F-female

#### EAN-13

Code	5213009761055
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#### General

Consumption	130mA (Typ.)
Housing material	PVC with UV filter
Operating temperature	0 °C to 40 °C
Storage temperature	-30 °C to +70 °C
Humidity	Up to 90%
Dimensions	75 x 38.5 x 28mm
Weight	220gr

## Quattro Ku-band LNB with UV filter

The LNB-104 is a Quattro KU-band LNB of excellent performance. It's UV filter on the cap ensures long time longevity even under hard environment conditions while it's small size offer the maximum flexibility.



## LNB-104

### Technical Specifications

#### Frequency

Input range (low band)	10.70...11.70 GHz
Input range (high band)	11.70...12.75 GHz
Output range (low band)	950...1950 MHz
Output range (high band)	1100...2150 MHz
L.O. (low band)	9.75 GHz
L.O. (high band)	10.60 GHz
Stability @ +2...5oC	±1.0MHz (Max.)
Stability @ -30...+70oC	±2.0MHz (Max.)

#### Gain

Conversion gain	60 dB (Typ.)
Gain flatness	±0.5dB/27MHz
Noise figure	0.6dB (Typ.)

#### Isolation

Cross polarization (Min.)	20dB
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#### Electrical

Impedance	75Ω
L.O. Phase Noise @ 1KHz	-75dBc/Hz
L.O. Phase Noise @ 10KHz	-80dBc/Hz
L.O. Phase Noise @ 100KHz	-90dBc/Hz
Image rejection	40dB (Min.)
Output VSWR	2.0:1 (Typ.)
P1dB	0dBm (Min.)
Band switching (Low):	0Hz
Band switching (High):	22KHz ± 4KHz
POL switching voltage (Low)	10.5...14.0V
POL switching voltage (High)	16.0...20.0V

#### Connectors

No of outputs	4
Connector	F-female

#### EAN-13

Code	5213009761062
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#### General

Consumption	220mA (Typ.)
Housing material	PVC with UV filter
Operating temperature	0 °C to 40 °C
Storage temperature	-30 °C to +70 °C
Humidity	Up to 90%
Dimensions	117 x 38.5 x 28mm
Weight	240gr

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