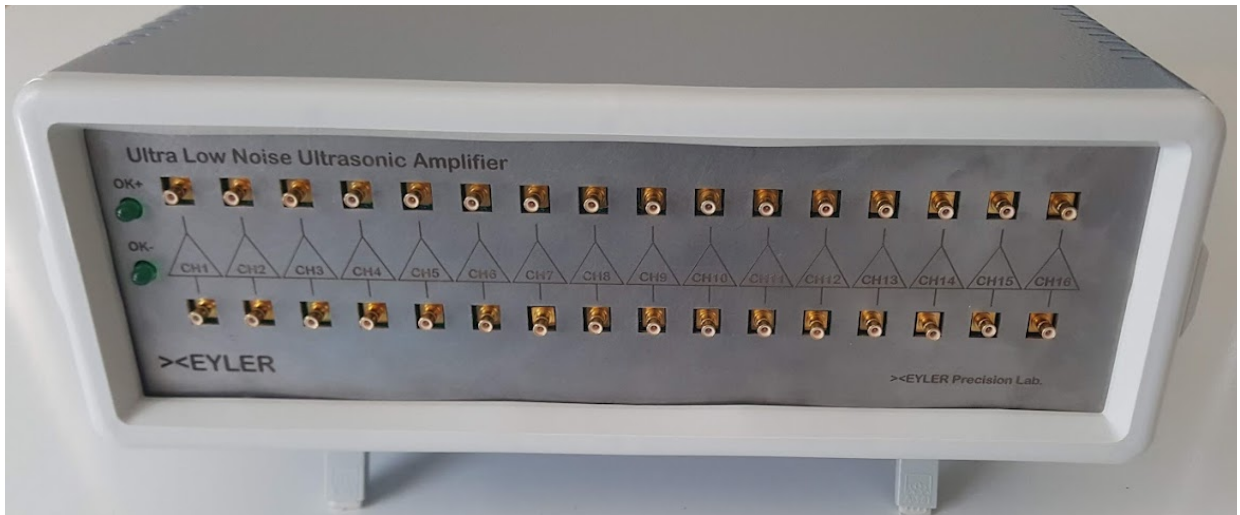


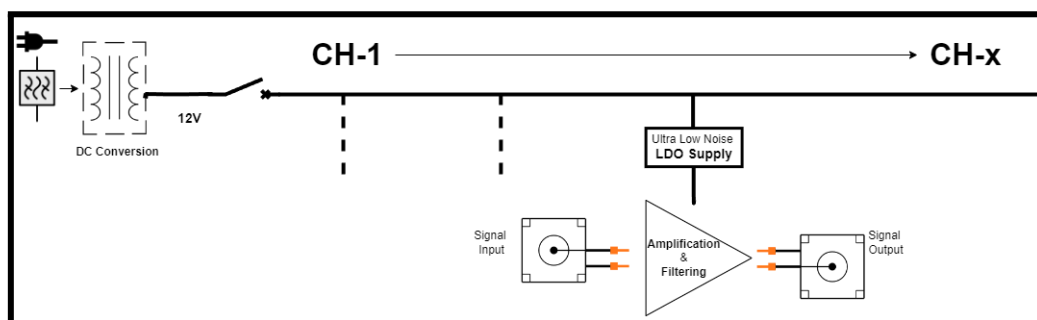
LNA-xC-xHz

MULTIPLE CHANNEL & FREQUENCY TUNED LOW NOISE AMPLIFIER (LNA)



EYLER™ Low Noise Amplifier (**LNA-xC-xHz**) is a multi-channel, high-gain, ultra low noise amplifier suitable for precision measurement tasks such as ultrasound low-level signal detection and dynamic pressure measurements.

The gain factor, number of channels (between 1 to 16) and filter frequencies (up to 1 GHz) can be customized in the hardware according to the application's requirements.



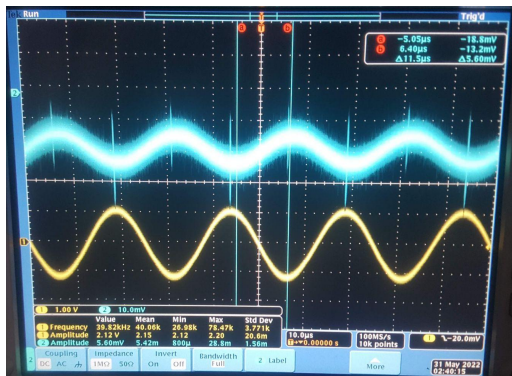
Internal schematic of LNA-xC-xHz

The product works with 110V-230V AC power and includes a high Q factor AC transformer, built-in AC to DC converter and line filter banks for rejecting the 50/60 Hz line noise and the high frequency noise originating from the ground.

TECHNICAL SPECIFICATIONS

AMPLIFIER SPECS		PHYSICAL SPECS	
Number of Channels	1 ÷ 16 (configurable)	Power Requirement	110/230V @ 50/60 Hz - 400mA max
Signal Output Range	± 5V peak	Signal Connectors	SMA - Male
Typical Gain	30 dB (configurable)	Box Size	W: 2880 mm. L: 271 mm. H: 105 mm.
Output Filter Options	Lowpass, Bandpass	Weight	3.5 kg.
Offset Voltage and Drift	3 µV - 0.005 µV/°C	Humidity	0-90% RH
CMRR	168 dB		
Output Noise	1 kHz: 5.2 nV/√Hz		

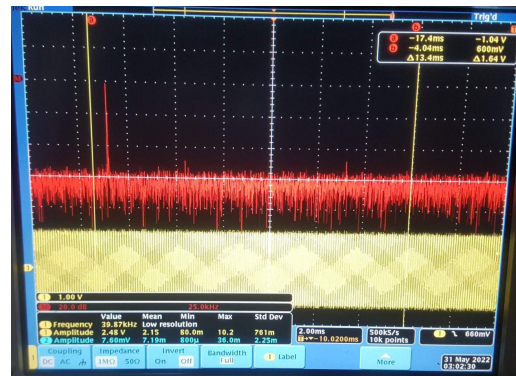
PERFORMANCE



Vin= 39 kHz, 5,6m Vp (blue trace)

Vout= 39 kHz, 2.12 Vp (yellow trace)

Gain= 370 = 50 dB

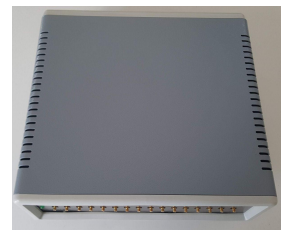
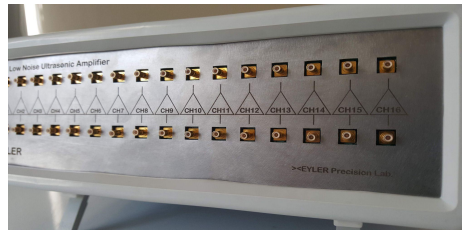


Vin= 39 kHz, 5,6m Vp (yellow trace)

Vout= 39 kHz, 2.48 Vp (red trace)

SFDR= ~60 dB

IMAGE GALLERY



LNA-xC-xHz HAS DIFFERENT HARDWARE OPTIONS.

[CONTACT](#) EYLER TO LEARN MORE

Eyler Mühendislik ,

Adalet M. 1645/5 Sk. 25C Bayraklı, İzmir TURKIYE

info@eylereng.com, P: +90 232 999 89 05