

## LNA 6901 LOW NOISE AMPLIFIER 9 kHz TO 1 GHz



Wide band

- High gain
- Low noise figure
- Significantly enhancing the low level performance

Accelonix BV Luchthavenweg 18b • NL-5657 EB • Eindhoven • The Netherlands • T: +31 40 750 1650 • E: info@accelonix.nl

**Teseq GmbH** Landsberger Str. 255 · 12623 Berlin · Germany T +49 30 56 59 88 35 F +49 30 56 59 88 34 desales@teseq.com **www.teseq.com** 

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The LNA 6901 is a low noise amplifier with typ. 28 dB of gain covering the nominal frequency range 9 kHz to 1 GHz and can be used up to 2 GHz. With its high gain and low noise figure, it will significantly increase the sensitivity of virtually all spectrum analyzers and other RF measuring instruments. All measuring instruments have a 'noise figure', which is a measure of how good the instrument is at measuring low level signals, the lower this figure, the better, although the lowest signal level will still be governed by the measurement bandwidth. A typical spectrum analyzer may have a noise figure of 20 dB or more, whereas a typical receiver may have a noise figure of 10 dB. The preamplifier has a noise figure of typical 2.8 dB, significantly enhancing the low level performance of such instruments, enabling signals that were previously masked by noise to be seen.

The low noise amplifier can be connected directly to the RF input (N) of the spectrum analyzer or EMI-receiver. If the LNA 6901 is used with the Teseq receiver SCR 35xx/SMR 45xx, the power supply is provided directly by the receiver via the cable LE 237. Alternatively the power supply unit PSU 6000 can be used.

## Technical specifications

Eroquency range

Frequency range:	
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Gain:	t
Gain flatness:	3
RF-Input:	۱
RF-Output:	۱
VSWR (input):	<
Noise figure:	t
1 dB-compression (output):	-
Intercept point IP3 (output):	t
Max. input (linear):	-
DC-power supply:	-
DC-current:	ć
DC-connector:	(
Operating temperature range:	(
Storage temperature range:	-
Size (W $\times$ D $\times$ H) (without connectors):	2
Size (W x D x H) (including connectors):	2
Weight:	ĉ

9 kHz to 1 GHz (nominal range) 9 kHz to 2 GHz (utilizable range) typ. 28 dB ±1 dB N - female, 50 Ω (optional N-male) N - male, 50 Ω (optional N-female) <1.5 typ. 2.8 dB (at 25°C, 100 MHz) +8 dBm typ. +25 dBm -20 dBm (87 dBµV) 11 to 15 V approx. 100 mA ODU-female, plus on inner conductors 0° to 40°C -20° to 60°C 27 mm x 50 mm x 27 mm 28 mm x 95 mm x 27 mm approx. 127 g



