

# Variable-gain amplifier



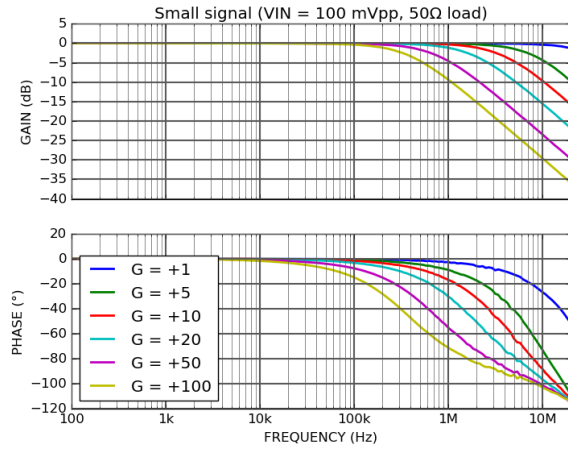
Koheron AMP100 is a  $\pm 15$  V voltage amplifier with adjustable gain.

## Specifications

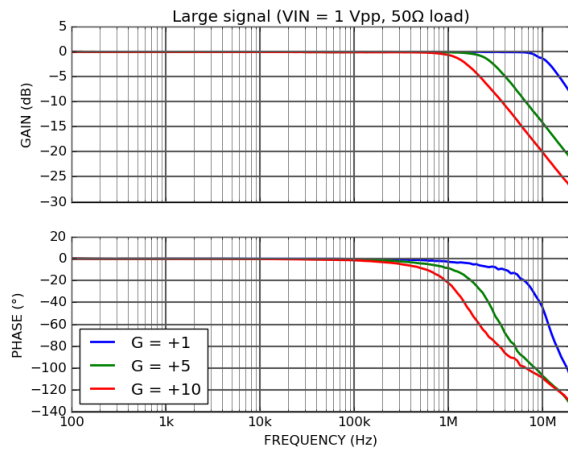
	AMP100
Supply voltage range	$\pm 5$ V to $\pm 16$ V
Supply current	8.5 mA
Gain range	1.05 to 20
3 dB bandwidth (gain = 10)	2 MHz
Input-referred voltage noise (1 kHz)	$< 3$ nV/ $\sqrt{\text{Hz}}$
Slew rate	55 V/ $\mu\text{s}$
Output voltage swing	$\pm 12$ V ( $\pm 15$ V supply)
Input impedance	50 $\Omega$
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Outside dimensions	50 mm x 33 mm x 14 mm
Weight	11 g

## Frequency response

### Small signal



## Large signal



## Input noise

Input voltage noise density measured for a gain of 10.

