## Datasheet

Features         * Features <ul> <li></li></ul>		
Constituent	<ul> <li>Ionisation Detectors</li> <li>Preamplifier for Lock-Ins,</li> </ul>	
Specifications	Test Conditions Transimpedance	$Vs = \pm 15 V$ , Ta = 25°C 1 x 10 <sup>5</sup> V/A (@ 50 $\Omega$ load)
Guin	Gain Accuracy	±1%
Frequency Response	Lower Cut-Off Frequency Upper Cut-Off Frequency (- 3 dB) Rise / Fall Time (10 % - 90 %) Gain Flatness	DC 40 MHz 10 ns ± 0.3 dB
Input	Equ. Input Noise Current Equ. Input Noise Voltage Input Bias Current Input Bias Current Drift Offset Current Compensation Input Current Range Input Offset Voltage DC Input Impedance	3.7 pA/ $\sqrt{\text{Hz}}$ (@ 100 kHz) 0.8 nV/ $\sqrt{\text{Hz}}$ (@ 100 kHz) 18 $\mu$ A typ. 0.8 nA / K $\pm$ 20 $\mu$ A adjustable by offset trimpot $\pm$ 15 $\mu$ A (for linear amplification) 3 mV 50 $\Omega$ (virtual) // 5 pF
Output	Output Voltage Range Output Impedance	$\pm$ 1.5 V (@ 50 Ω load) for linear operation and low harmonic distortion 50 Ω (terminate with 50 Ω load for best performance)
Bias Output	Bias Output Voltage Range Bias Output Impedance	$\pm$ 12 V, adjustable by bias trimpot 10 k $\Omega$ // 1 $\mu F$
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## **Datasheet**

## HCA-40M-100K-C

## **High-Speed Current Amplifier**





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