Datasheet

Features • Bandwidth and Frequency Response Independent of		
Applications	 Photodiode and Photomultiplier Amplifier Spectroscopy Charge Amplifier Ionisation Detectors Preamplifier for Lock-Ins, A/D Converters, etc. 	
Specifications	Test Conditions	Vs = ± 15 V, Ta = 25°C
Gain	Transimpedance Gain Accuracy	1 x 10 ⁵ V/A (@ 50 Ω load) ± 1 %
Frequency Response	Lower Cut-Off Frequency Upper Cut-Off Frequency (- 3 dB) Rise / Fall Time (10 % - 90 %) Gain Flatness	DC 10 MHz 35 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	3.5 pA/ $\sqrt{\text{Hz}}$ (@ 100 kHz) 0.8 nV/ $\sqrt{\text{Hz}}$ (@ 100 kHz) 18 μ A typ. 0.8 nA / K \pm 20 μ A adjustable by offset trimpot \pm 15 μ A (for linear amplification) 3 mV 50 Ω (virtual) // 5 pF
	Output Voltage Range	± 1.5 V (@ 50 Ω load)
Output	Output Impedance	for linear operation and low harmonic distortion 50 Ω (terminate with 50 Ω load for best performance)

SOPHISTICATED TOOLS FOR SIGNAL RECOVERY

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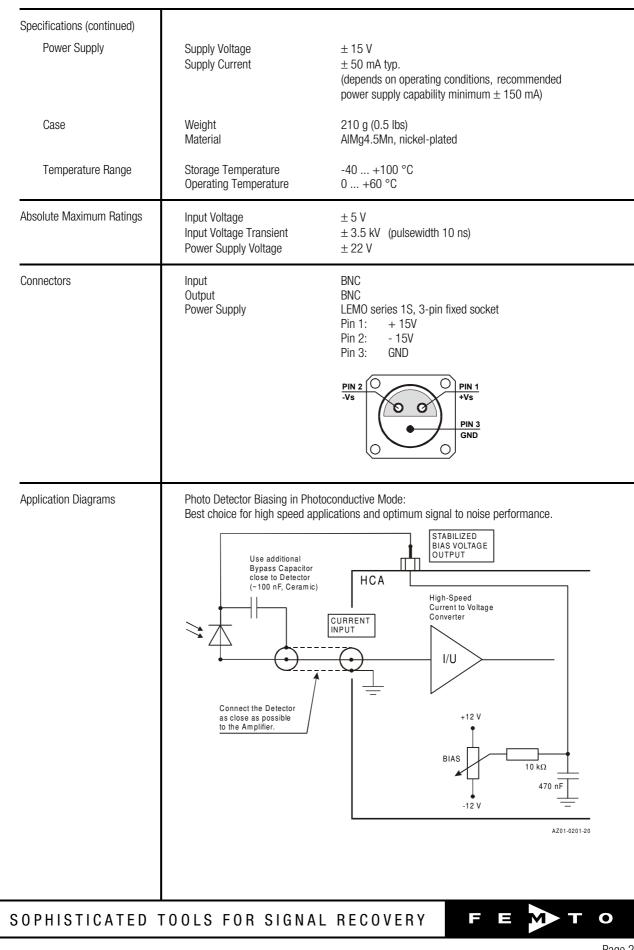
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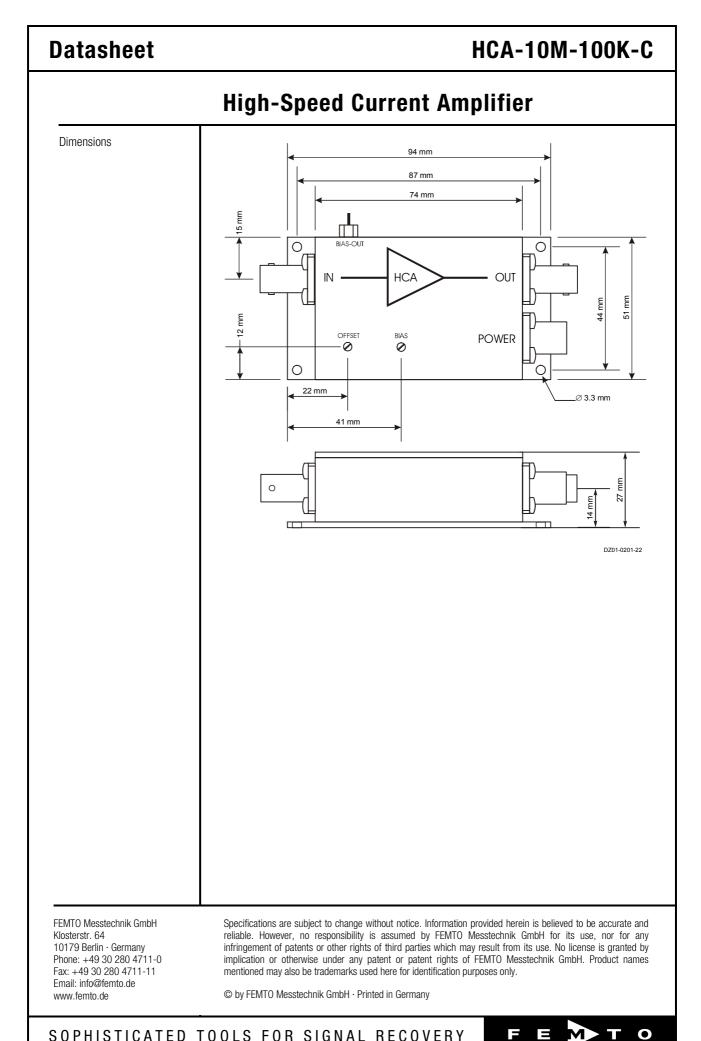
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Datasheet

HCA-10M-100K-C

High-Speed Current Amplifier





SOPHISTICATED TOOLS FOR SIGNAL RECOVERY

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