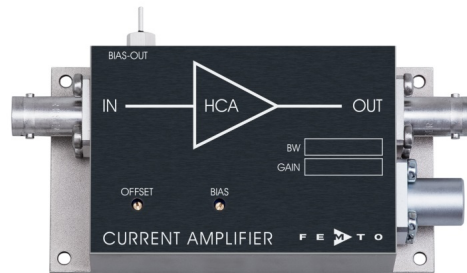


Datasheet

HCA-200M-20K-C

High-Speed Current Amplifier



Features	<ul style="list-style-type: none"> • Bandwidth DC ... 200 MHz • Transimpedance (Gain) 2×10^4 V/A • Suitable for Source Capacitance up to 8 pF • Low Equivalent Input Noise Current of 4.9 pA/√Hz 																																																														
Applications	<ul style="list-style-type: none"> • Photodiode and Photomultiplier Amplifier • Spectroscopy • Charge Amplifier • Ionisation Detectors • Pre-amplifier for Lock-Ins, A/D Converters, etc. 																																																														
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SOPHISTICATED TOOLS FOR SIGNAL RECOVERY



DE-HCA-200M-20K-C_R4/JM/18MAR2019

Datasheet

HCA-200M-20K-C

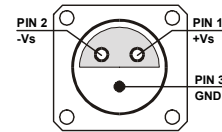
High-Speed Current Amplifier

Specifications (continued)

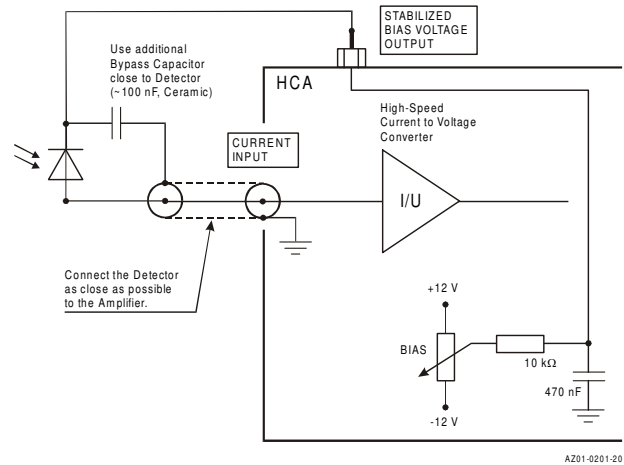
Power Supply	Supply Voltage Supply Current	± 15 V ± 50 mA typ. (depends on operating conditions, recommended power supply capability minimum ± 150 mA)
Case	Weight Material	210 g (0.5 lbs) AlMg4.5Mn, nickel-plated
Temperature Range	Storage Temperature Operating Temperature	$-40 \dots +100$ °C $0 \dots +60$ °C

Absolute Maximum Ratings	Input Voltage Power Supply Voltage	± 5 V ± 22 V
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Connectors	Input Output Power Supply	BNC BNC LEMO series 1S, 3-pin fixed socket Pin 1: +15V Pin 2: -15V Pin 3: GND
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Application Diagrams
Photo Detector Biasing in Photoconductive Mode:
Best choice for high speed applications and optimum signal to noise performance.



SOPHISTICATED TOOLS FOR SIGNAL RECOVERY

F E M T O

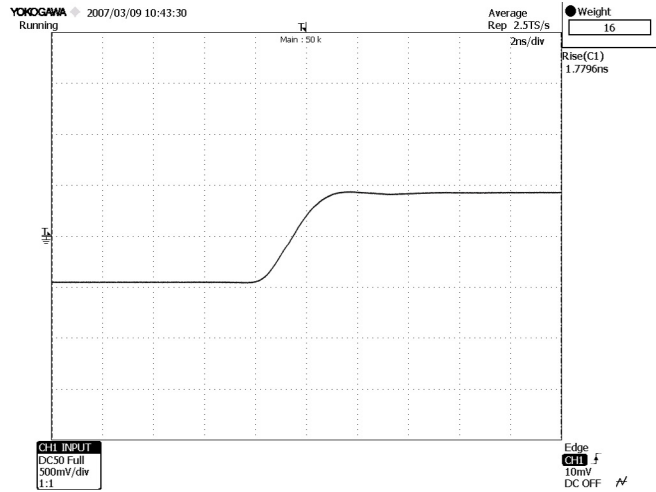
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HCA-200M-20K-C

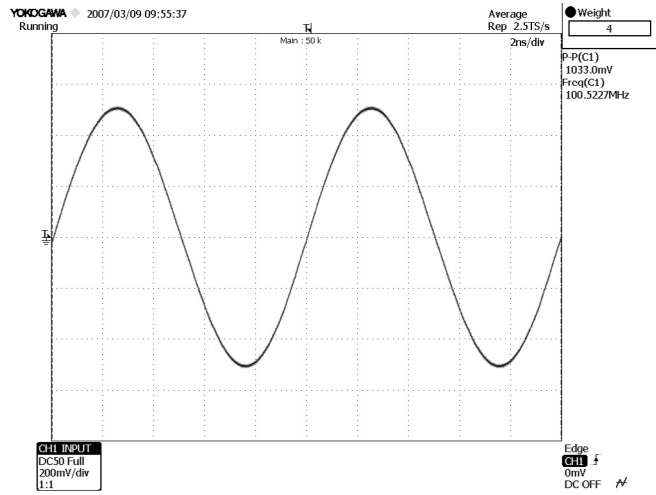
High-Speed Current Amplifier

Typical Performance
Characteristics
(continued)

Pulse Response to Square Wave Input Signal
(with 16 times averaging)



Large Signal Response
output signal for 100 MHz, 50 μ A peak-peak input signal
(with 4 times averaging)



SOPHISTICATED TOOLS FOR SIGNAL RECOVERY



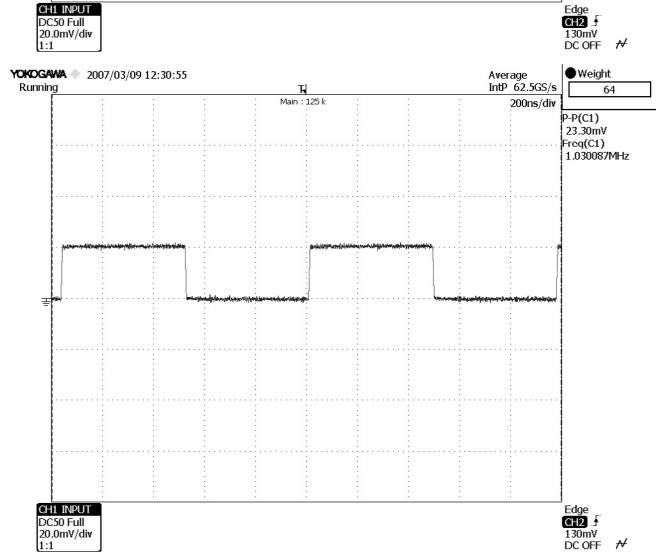
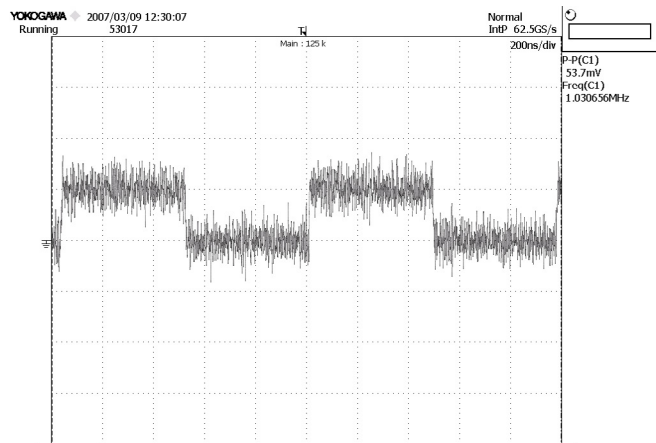
Datasheet

HCA-200M-20K-C

High-Speed Current Amplifier

Typical Performance
Characteristics
(continued)

Small Signal Response
output signal for 1 MHz, 1 μ A peak-peak square wave input signal
(without (top) and with 64 times averaging (bottom))



SOPHISTICATED TOOLS FOR SIGNAL RECOVERY

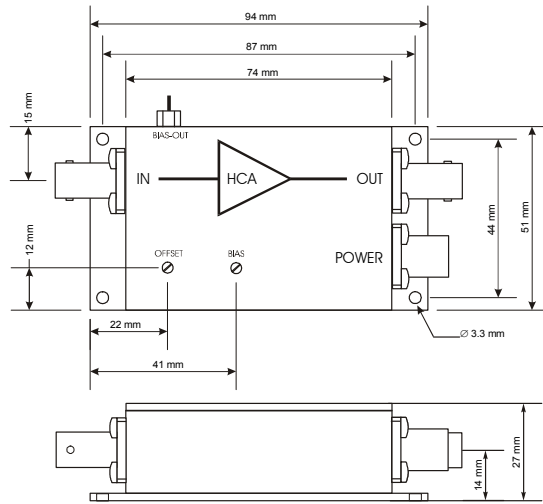


Datasheet

HCA-200M-20K-C

High-Speed Current Amplifier

Dimensions



D201-0201-22

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