Datasheet HCA-S-200M-SI **High-Speed Photoreceiver with** Si PIN Photodiode The photoreceiver will be delivered without post holder and post Features Si PIN Detector, 0.8 mm Active Diameter Spectral Range 320 ... 1000 nm ٠ Bandwidth DC ... 200 MHz ٠ Amplifier Transimpedance (Gain) 2.0 x 10⁴ V/A ٠ Max. Conversion Gain 1.1 x 10⁴ V/W (@ 800 nm) ٠ Applications Spectroscopy ٠ **Fast Pulse and Transient Measurements** • **Optical Triggering Optical Front-End for Oscilloscopes, A/D Converters and Fast Lock-In Amplifiers** Specifications *Vs* = ± 15 *V*, *Ta* = 25°*C* Test Conditions Gain Transimpedance 2.0 x 10^4 V/A (@ 50 Ω load) Max. Conversion Gain 1.1 x 10⁴ V/W (@ 800 nm) Frequency Response Lower Cut-Off Frequency DC Upper Cut-Off Frequency (-3 dB) 200 MHz (±10 %) Rise/Fall Time (10% - 90%) 1.8 ns Gain Flatness $\pm 1 \text{ dB}$ Detector Detector Material Si PIN photodiode Active Area Ø 0.8 mm 320 ... 1000 nm Spectral Response \pm 100 µA adjustable by offset trimpot Input Offset Compensation Input Max. Optical Input Power 110 uW (for linear amplification, @ 800 nm) Min. NEP 9.3 pW/√Hz (@ 800 nm, 10 MHz)

SOPHISTICATED TOOLS FOR SIGNAL RECOVERY

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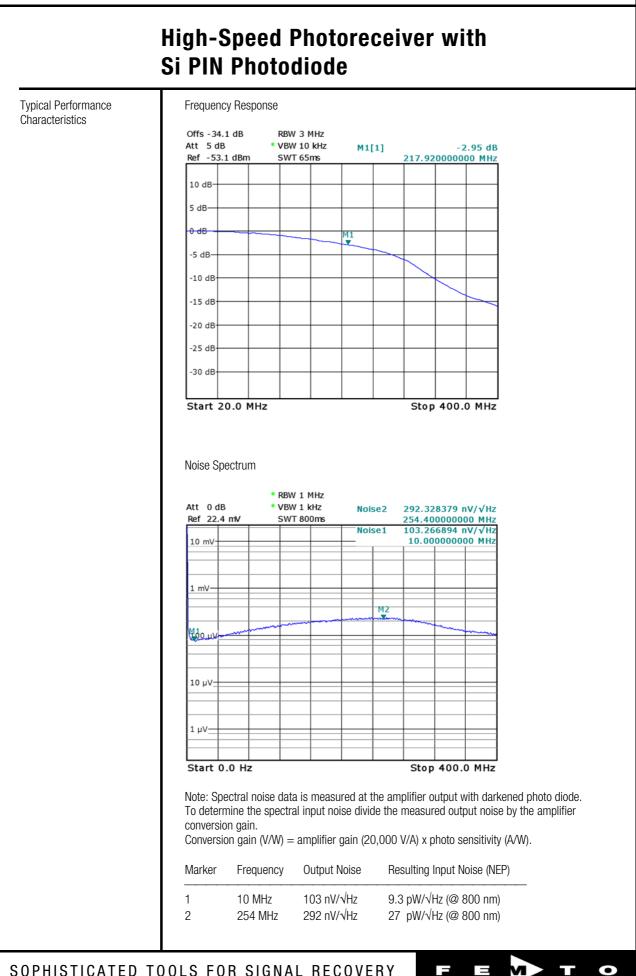
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High-Speed Photoreceiver with Si PIN Photodiode

Output	Output Voltage Range Max. Output Voltage Range Output Impedance Output Noise	$\begin{array}{llllllllllllllllllllllllllllllllllll$
Case	Weight Material	210 g (0.5 lbs) AlMg4.5Mn, nickel-plated
Temperature Range	Storage Temperature Operating Temperature	-40 +100 °C 0 +60 °C
Absolute Maximum Ratings	Optical Input Power Power Supply Voltage	20 mW ± 22 V
Spectral Response	0.6 0.5 0.4 0.4 0.4 0.1 0.2 0.1 0.2 0.1 0.2 0.0 0.0 0.2 0.0 0.0 0.0 0.0 0.0 0.0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Connectors	Input Output Power Supply	optical, free space, 25 mm \varnothing round flange compatible with microbench systems BNC LEMO series 1S, 3-pin fixed socket Pin 1: + 15V Pin 2: - 15V Pin 3: GND PIN 2 -Vs PIN 3 GND
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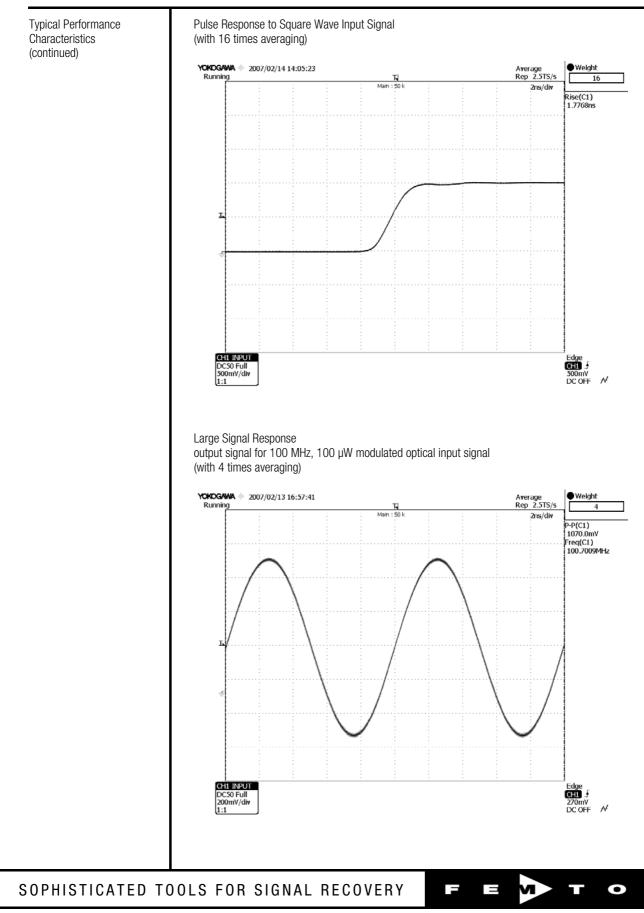


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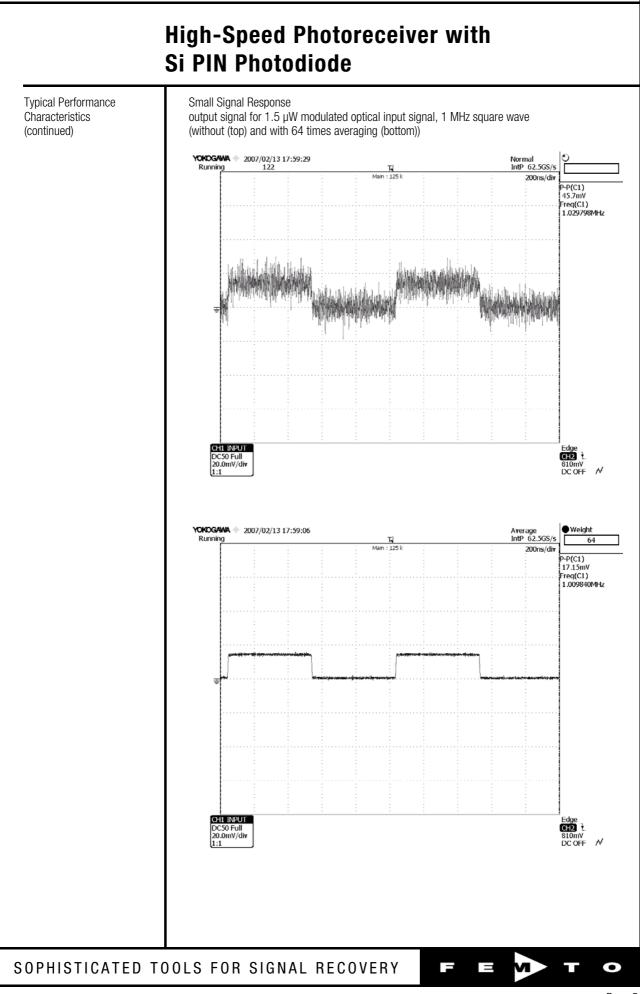
HCA-S-200M-SI

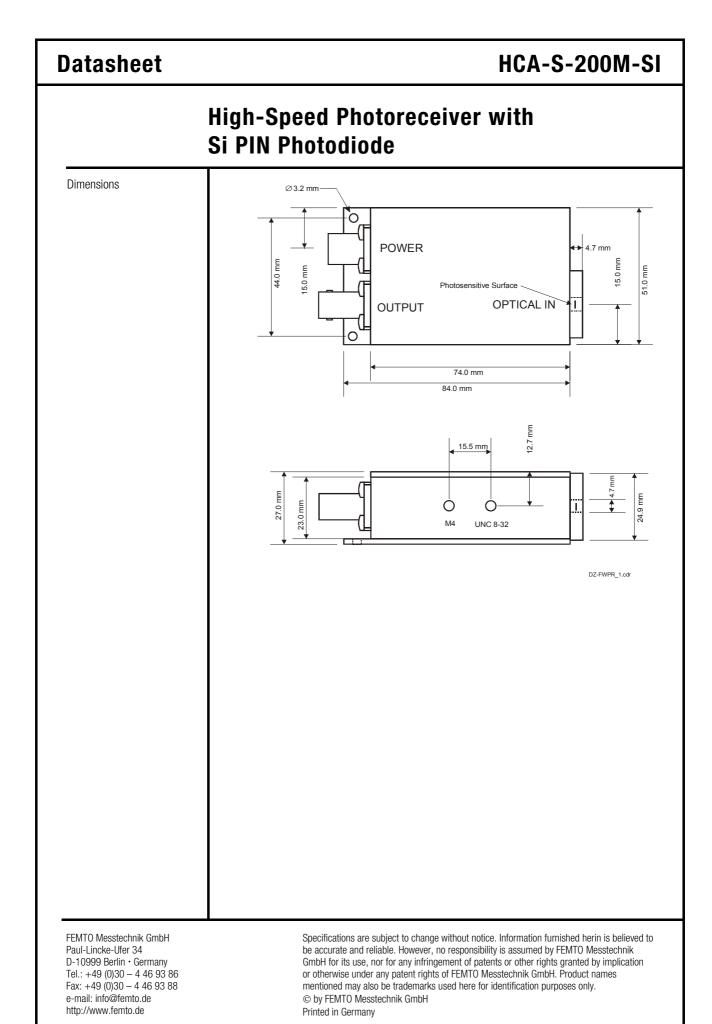
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