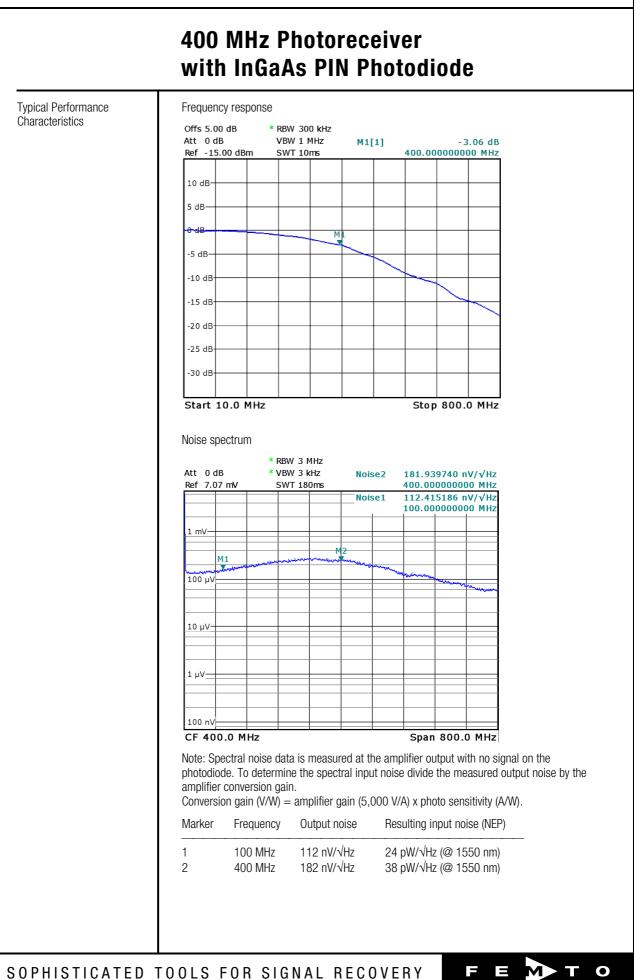
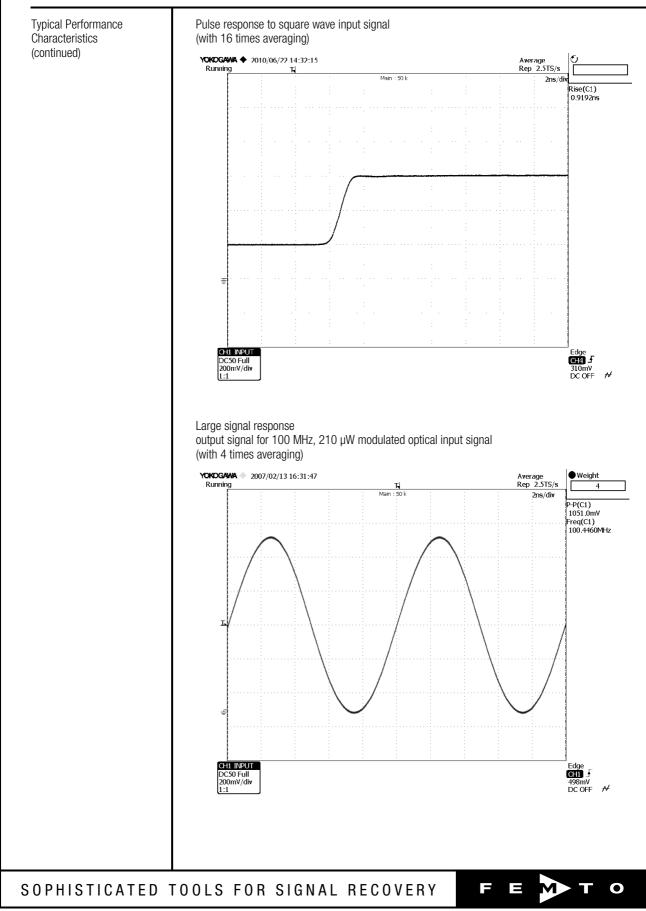
	400 MHz Photo with InGaAs P	
	The picture shows the HCA-S-40 The photoreceiver will be delivered	
Features	 InGaAs PIN detector Spectral range 900 170 Bandwidth DC 400 MHz Amplifier transimpedance Max. conversion gain 4.8 	0 nm 9 (gain) 5.0 x 10³ V/A
Applications	 Spectroscopy Fast pulse and transient measurements Optical triggering Optical front-end for oscilloscopes and A/D converters 	
Specifications	Test conditions	$\rm V_{S}=\pm15$ V, $\rm T_{A}=25$ °C, system impedance = 50 Ω
Gain	Transimpedance Max. conversion gain	5.0 x 10 ³ V/A (@ 50 Ω load) 4.8 x 10 ³ V/W (@ 1550 nm)
Frequency Response	Lower cut-off frequency Upper cut-off frequency (–3 dB) Rise/fall time (10 % - 90 %)	DC 400 MHz (±15 %) 1.0 ns
Detector	Detector material Active area Spectral response	InGaAs PIN photodiode \varnothing 300 µm (free space "-FS" version only) 900 1700 nm
Input	Input offset compensation range Optical saturation power NEP	± 200 μA adjustable by offset potentiometer 200 μW (for linear amplification, @ 1550 nm) 24 pW/ \sqrt{Hz} (@ 1550 nm, 100 MHz)
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400 MHz Photoreceiver with InGaAs PIN Photodiode

Specifications (continued)		
Output	Output voltage range Max. output voltage range Output impedance Output noise	± 1.0 V(@ 50 Ω load)for linear amplification and low harmonic distortion ± 1.5 V(@ 50 Ω load)50 Ω(designed for 50 Ω load)typ. 20 mV _{PP} or 3 mV _{RMS} (@ 50 Ω load, no signal on detector)
Power Supply	Supply voltage Supply current	± 15 V ± 55 mA typ. (depends on operating conditions, recommended power supply capability min. ± 150 mA)
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	10 mW ±22 V
Spectral Response	1.0 0.9 0.8 0.7 0.6 A/W 0.5 0.4 0.3 0.2 0.1 0 800 900 100	Photo sensitivity
Connectors	Input Output Power supply	HCA-S-400M-IN-FS 25 mm round flange for free space applications HCA-S-400M-IN-FC FC fiber optic receptacle BNC jack (female) Lemo® series 1S, 3-pin fixed socket (Mating plug type: FFA.1S.303.CLAC52) Pin 1: $+15V$ Pin 2: $-15V$ Pin 3: GND PIN 2 V = V =
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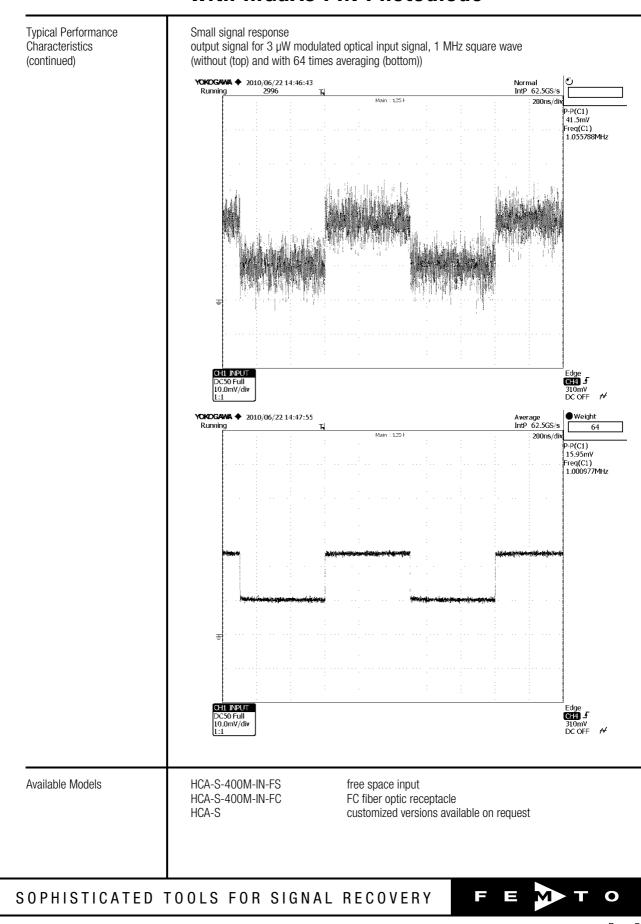


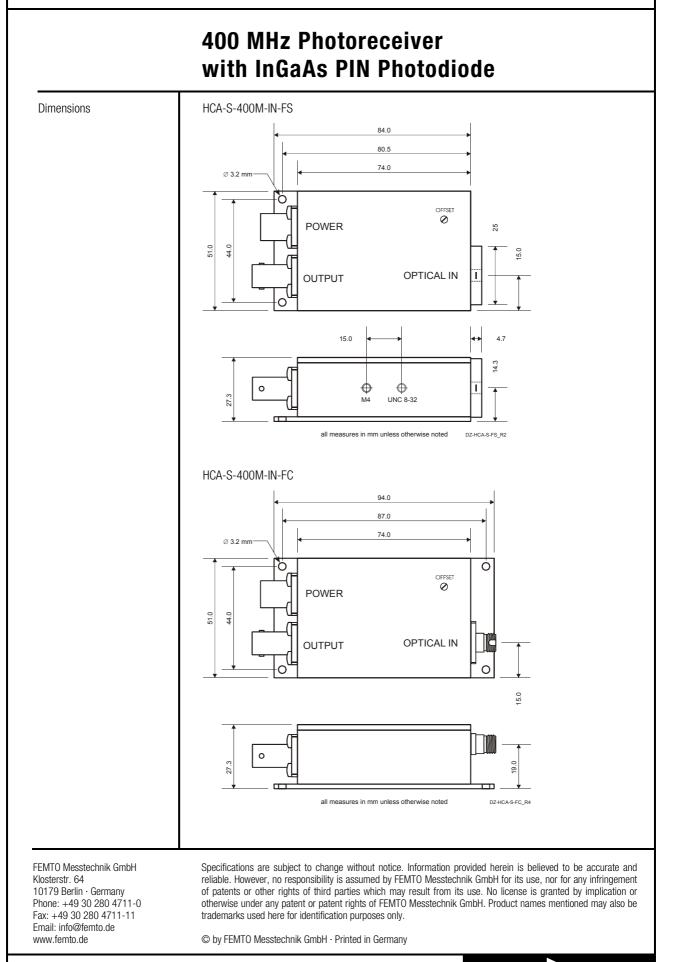
400 MHz Photoreceiver with InGaAs PIN Photodiode



HCA-S-400M-IN

400 MHz Photoreceiver with InGaAs PIN Photodiode





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