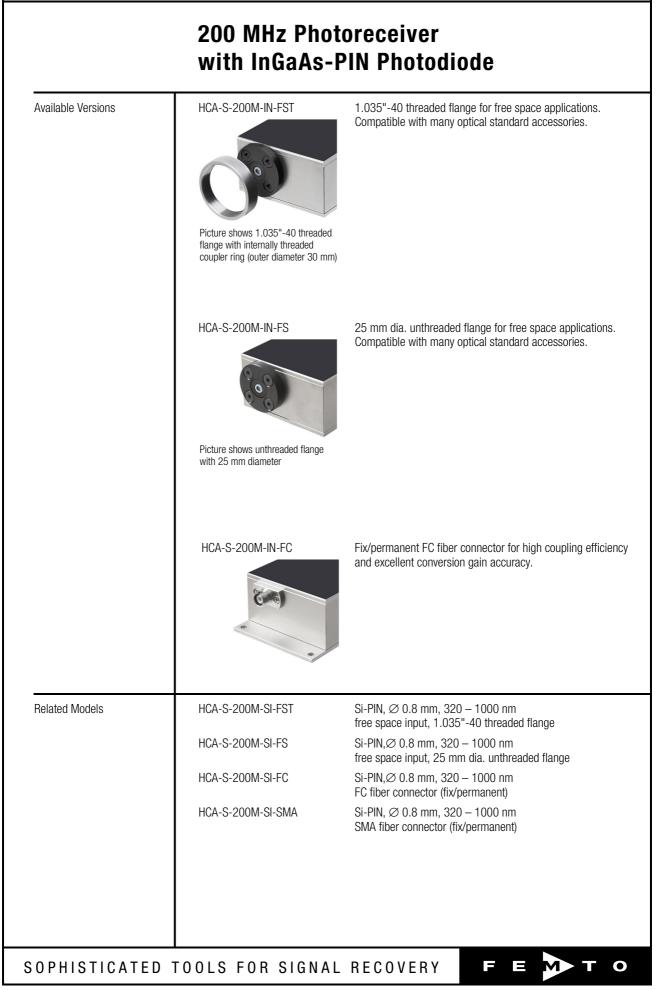


HCA-S-200M-IN



	200 MHz Photoreceiver with InGaAs-PIN Photodiode			
Available Accessories	PRA-PAP	Alternative mounting option: Post adapter plate, easy to mount on FEMTO photoreceiver series OE, FWPR, PWPR, HCA-S and LCA-S.		
	PS-15-25-L	Power supply Input: 100 – 240 VAC Output: ±15 VDC		
Specifications	Test conditions	$V_s = \pm 15$ V, $T_A = 25$ °C, output load impedance 50 Ω , warm-up 20 minutes (min. 10 minutes recommended)		
Gain	Transimpedance gain Gain accuracy Conversion gain	2.0×10^4 V/A (@ output load 50 Ω) ±1 % (electrical) 1.9 × 10 ⁴ V/W typ. (@ 1550 nm, output load 50 Ω)		
Frequency Response	Lower cut-off frequency Upper cut-off frequency (–3 dB) Gain flatness	DC 200 MHz (±15 %) ±1 dB		
Time Response	Rise/fall time (10 % – 90 %)	1.8 ns		
Input	Noise equivalent power (NEP) Optical saturation power Input offset compensation range	5.2 pW/√Hz (@ 1550 nm, 10 MHz) 60 μW (for linear amplification, @ 1550 nm) ±100 μA, adjustable by offset potentiometer		
Detector	Detector Active area (FS/FST version) Active area (FC version) Spectral range	InGaAs-PIN photodiode \varnothing 0.3 mm integrated ball lens suitable for fibers up to 62.5 µm core diameter 900 – 1700 nm		
	Max. sensitivity	900 – 1700 nm 0.95 A/W typ. (@ 1550 nm)		
Output	Output voltage range	\pm 1.2 V (@ 50 Ω output load) for linear operation and low harmonic distortion		
	Max. output voltage range Output impedance Output noise	± 1.7 V (@ 50 Ω output load) 50 Ω (terminate with 50 Ω load) 4.5 mV _{RMS} (30 mV _{PP}) typ. (@ 50 Ω load, no signal on detector, measurement bandwidth 500 MHz)		
Input Flange	Material	1.4305 stainless steel, nickel-plated (FST flange) AlMg4.5Mn, nickel-plated (FS flange)		
Coupler Ring (FST version only)	Material	1.4305 stainless steel, glass bead blasted		
Power Supply	Supply voltage Supply current	± 15 V (± 14.5 V ± 16.5 V) ± 60 mA (depends on operating conditions, recommended power supply capability min. ± 150 mA)		

SOPHISTICATED TOOLS FOR SIGNAL RECOVERY

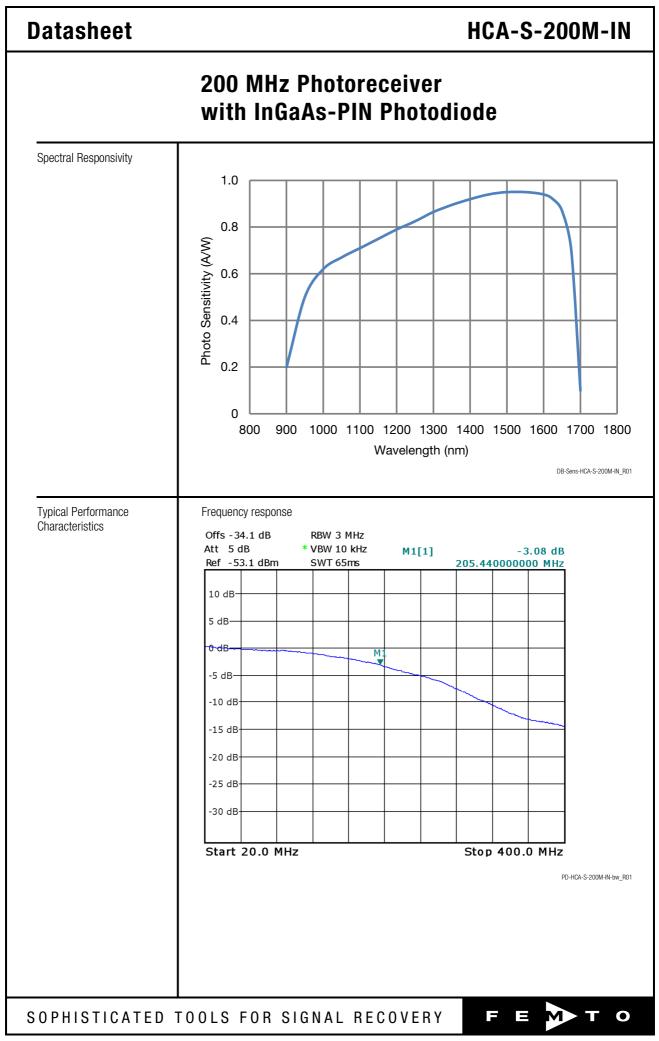
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200 MHz Photoreceiver with InGaAs-PIN Photodiode

Specifications (continued)				
Case	Weight	196 g (0.43 lbs) HCA-S-	209 g (0.46 lbs) HCA-S-200M-IN-FST incl. coupler ring 196 g (0.43 lbs) HCA-S-200M-IN-FS	
	Material	188 g (0.41 lbs) HCA-S-200M-IN-FC AIMg4.5Mn, nickel-plated		
Temperature Range	Storage temperature Operating temperature	-30 °C +85 °C 0 °C +60 °C		
Absolute Maximum Ratings	Optical input power (CW) Power supply voltage	10 mW ±20 V		
Connectors	Input	HCA-S-200M-IN-FST	1.035"-40 threaded flange for free space applications and for use with various types of optical standard accessories	
		HCA-S-200M-IN-FS	25 mm dia. unthreaded flange for free space applications	
		HCA-S-200M-IN-FC	FC fiber optic connector (fix/permanent, FC/PC and FC/APC compatible)	
	Output	BNC jack (female)		
	Power supply		LEMO [®] series 1S, 3-pin fixed socket (mating plug type: FFA.1S.303.CLAC52)	
			PIN 1 Pin 1: +15 V +vs Pin 2: -15 V PIN 3 Pin 3: GND	
Scope of Delivery	HCA-S-200M-IN, internally threaded coupler ring (FST version only), LEM0 $^{\odot}$ 3-pin connector, datasheet, transport package			
Ordering Information	HCA-S-200M-IN-FST	1.035"-40 threaded flange for free space applications and for use with various types of optical standard accessories.		
	HCA-S-200M-IN-FS	25 mm dia. unthreaded flange for free space applications.		
	HCA-S-200M-IN-FC	FC fiber optic connector (fix/permanent, FC/PC and FC/APC compatible).		
		L RECOVERY		



200 MHz Photoreceiver with InGaAs-PIN Photodiode

