

High-Speed Balanced Photoreceiver with integrated InGaAs-Photodiodes (Customized Version)

Features	<ul style="list-style-type: none"> 2x InGaAs-Detectors, 0.1 mm active Diameter Bandwidth DC ... 240 MHz Amplifier Transimpedance (Gain) 2×10^4 V/A Conversion-Gain 1.8×10^4 V/W (@ 1550 nm) 2x FC optical Fiber Input A and B 		
Specifications	<i>Test Conditions</i>	<i>V_s = ± 15 V, T_a = 25°C</i>	
Gain	Transimpedance	2×10^4 V/A	@ 50 Ω Load
	Conversion Gain	1.8×10^4 V/W	@ 1550 nm, 50 Ω Load
	Common Mode Rejection	approx. 20 dB	
Frequency Response	Lower Cut-Off Frequency	DC	
	Upper Cut-Off Frequency	240 MHz	(- 3 dB)
	Rise- / Fall-Time	1.5 ns	(10% - 90%)
Detectors	Detector Material	InGaAs	
	Active Diameter	0.1 mm plus ball lens (0.2 mm eff. Area)	
	Spectral Response	900 – 1700 nm	
	Peak Sensitivity	0.9 A/W	(@ 1550 nm)
	Bias Voltage	+6 V and -6 V	
Input	Offset Compensation	> ±1.6 V (@ Output) adjustable by Offset trimpot	
	Max. Optical Input Power	80 μW (for linear Amplification, @ 1550 nm)	
Noise	NEP	5.7 pW/√Hz	(@ 1550 nm, 20 MHz)
Output	Output Voltage	±1.5 V	(50 Ω Load)
	Output Impedance	50 Ω	
Power Supply	Supply Voltage	± 15 V	
	Supply Current	± 60 mA typ.	
Case	Weight	210 gr. (0.5 lbs)	
	Material	AlMg4.5Mn, nickel-plated	
Temperature Range	Storage Temperature	-40 ... +100 °C	
	Operating Temperature	0 ... +60 °C	
Absolute Maximum Ratings	Optical Input Power	20 mW	
	Power Supply Voltage	± 22 V	

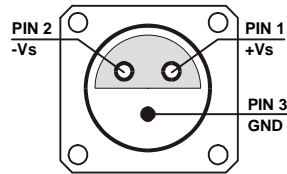
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Connectors

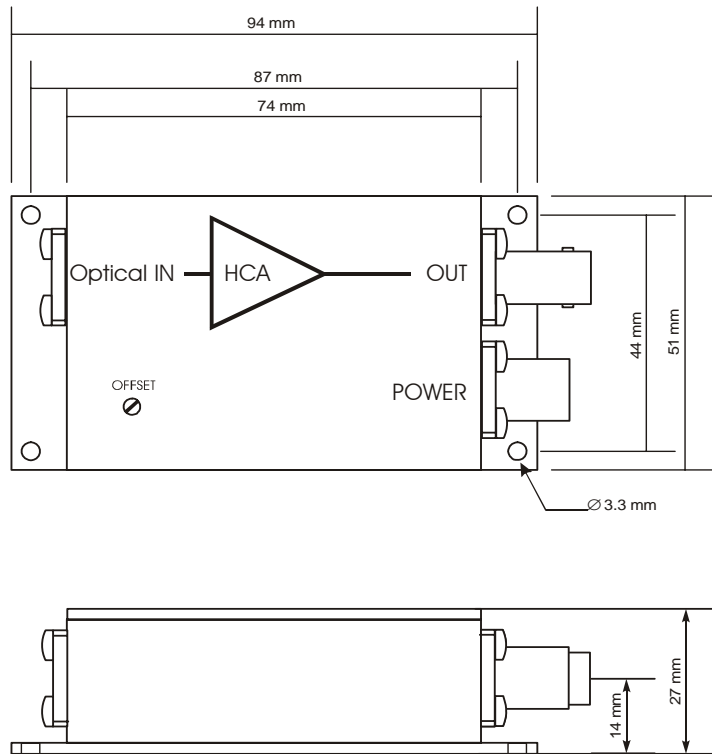
Input 2x Optical, FC Fiber Connector

Output BNC

Power Supply LEMO Series 1S, 3-pin fixed Socket
 Pin 1: + 15V
 Pin 2: - 15V
 Pin 3: GND



Dimensions
(Diagram similar to actual Device)



DZ01-0201-22

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