

PR130

low-noise photoreceiver

Technical Data Sheet



PR130 is a multi-purpose low-noise photoreceiver intended to detect a small AC signal on a large DC component. It is ideally suited for highly sensitive optical signal detection at wavelengths between 320nm and 1000nm.

Key features are: high sensitivity, high-speed response, and broad wavelength range. A DC monitor output port provides ease of alignment and reliable detector overstress protection.

Power supply not included. A conventional stabilized laboratory voltage source is suitable.

PR130 photoreceiver specifications

3-dB bandwidth	25kHz to 130MHz
wavelength range	320nm to 1000nm
integrated noise*	350nW _{rms}
typ. max. responsivity	0.55A/W @ 820nm
transimpedance gain	4 x 10 ⁴ V/A
peak conversion gain	2.2 x 10 ⁴ V/W
DC transimpedance gain	1V/mA
output impedance	50 Ohms
max. average optical power	7mW
max. DC photovoltage	3V
photodetector type	Si PIN
photodetector diameter	0.8mm
optical input	free space
coupling	AC
AC output connector	SMA-f
DC monitor output connector	SMB/BNC
power requirement	±15V, 200mA
dimensions (mm)	60(L) x 60(W) x 40(H)

* 25kHz to 130MHz bandwidth

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