

Photometric Response Detectors (series -P)



The Centronic range of photometric detectors features the proven Series 5T chip combined with specially designed coloured glass filters installed in front of the detector chip. The detectors simulate closely the spectral response of the human eye and are intended for applications requiring measurement of light levels for medical, CRT displays, LED, LCD displays and photography and other applications where a close match to the CIE curve is required.

Electrical / Optical Specifications

Characteristics measured at 22°C (± 2) ambient, and a reverse bias of 12 volts, unless otherwise stated.

Series P photodetectors are calibrated to match the CIE curve within 2% at 450 nm and 650 nm.

Single Elements

Type No.	Active Area		Responsivity A/W $\lambda = 550\text{nm}$		Dark Current nA		NEP $\text{WHz}^{-1/2}$ $\lambda = 550\text{ nm}$ Typ.	Capacitance PF Typ.		Shunt Resistance Megohms		Package
	mm ²	mm	Typ.	Min.	Max.	Typ.		Vr=0V Max.	Vr=12V Max.	Min.	Typ.	
OSD100-P	100	11.3 dia	0.16	0.22	30	8	1.2×10^{-13}	2500	520	2	15	**
OSD100-P BNC	100	11.3 dia	0.16	0.22	30	8	1.2×10^{-13}	2500	520	2	15	BNC

* Measured at $\pm 10\text{mV}$

** Package 13 with additional filter housing

Highlighted items are Centronic standard products generally available from stock

Due to our policy of continued development, specifications are subject to change without notice.