

High Speed Detectors (BPX65)



The BPX65 family of detectors feature Centronic's 1mm² high speed, high sensitivity chip already successful in a wide variety of applications. The chip can be packaged in various forms suitable for fibre-optic communication, such as the AX65-RF (precisely centred, isolated, low chip to window spacing) a standard 2 or 3 lead TO18 or even epoxy encapsulated. It has also been used for encoder designs and with MIL SPEC release at the heart of advanced laser warning systems.

Electrical / Optical Specifications

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

Type No.	Active Area		Responsivity A/W λ = 900 nm		Dark Current (nA)		NEP WHz- ^{1/2} λ = 900 nm	Capacitance pF		Risetime ns λ = 820 nm	Package
	mm²	mm	Min.	Тур.	Max.	Тур.	Тур.	Vr=0 V Max.	Vr=20V Max.	RL = 50 Ω Typ.	
BPX65	1	1 x 1 mm	0.52	0.55	5	1	3.310e-14	20	3.5	3.5	1
BPX65T	1	1 x 1 mm	0.52	0.55	5	1	3.310e-14	20	3.5	13	1
AX65R2F	1	1 x 1 mm	0.52	0.55	5	1	3.310e-14	20	3.5	3.5	2A
BPX65RT	1	1 x 1 mm	0.52	0.55	5	1	3.310e-14	20	3.5	8	2
X65EB	1	1 x 1 mm	0.52	0.52	5	1	3.310e-14	20	3.5	3.5	1B

Single Elements

Highlighted items are Centronic standard products generally available from stock

Series BPX Spectral Response Graph





Capacitance versus Bias Voltage



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