

Ultra High Speed Photodetector

The AEPX Series of photodiodes is offered in a range of small active area sizes suitable for high frequency optic applications. These photodetectors take advantage of an epitaxial structure to achieve good high frequency response at operating voltages as low as 5 volts. The detectros may also be operated at higher bias levels up to 20 volts to achieve extremely fast pulsed response.

Electrical / Optical Specifications

Characteristics measured at 22°C (± 2) ambient and a reverse bias of 5 volts, unless otherwise stated.

Type No	Single Elements									Risetime ns $\lambda=820\text{nm}$ RI=50ohm Typ	Package		
	Active Area		Responsivity	Dark Current nA		$\text{NEP } \text{WHz}^{-1/2}$ $\lambda=900\text{nm } 5\text{V}$ Typ	Capacitance pF						
	mm ²	mm	Typ	Max	Typ		Vr=5V Max	Vr=5V Max					
AEPX65	0.55	Ø0.84	0.35	10	2	6.8e-14	8	6	1.0	TO46			
AEPX10	0.1	Ø0.36	0.35	3	0.5	3.8e-14	3	2	0.7	TO46			
AEPX20	0.2	Ø0.51	0.35	3	1	4.8e-14	4	3	0.8	TO46			

[[Back to Responsivity Curves](#) | [Standard Product Range](#) | [Home](#)]

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