

## 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 detectors 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.

Single Elements										
Type No	Active Area		Responsivity	Dark Current nA		$NEP \text{ } \mu\text{WHz}^{-1/2}$ $\lambda=900\text{nm } 5\text{V}$ Typ	Capacitance pF		Risetime ns	Package
	mm <sup>2</sup>	mm	Typ	Max	Typ		Vr=5V Max	Vr=5V Max	$\lambda=820\text{nm}$ RI=50ohm Typ	
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

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