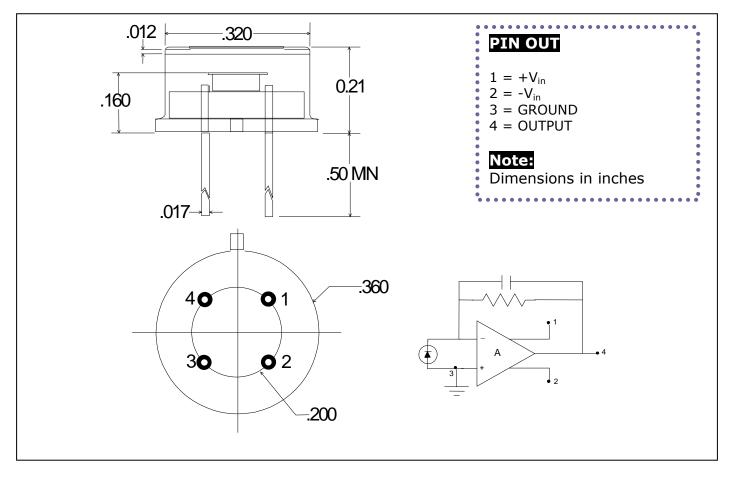


## **Receiver Modules**

E5 - SERIES TO - STYLE RECEIVERS



Application Note The preamplifier portion of this receiver is a transimpedence current to voltage converter. Its output voltage is proportional to the input signal current:

## $V_{out} = I_{signal} \times R_{feedback}$

This photodiode/amplifier is a DC coupled, high gain system and care should be taken to shield the unit from stray light during operation. This will help prevent saturation of the amplifier, which could lead to failure of the unit. Obtaining stable, long term operation will require suitable heat sinking.

SPECIFICATIONS	
Detector Type	2.5mm Dia Silicon Photodiode
Wavelength Range	300 – 1000 nm
Part Number	S-025-E5/1M
Output Responsivity, V/W	10 <sup>5</sup> @ 850 nm
Output Noise, V/Hz <sup>1/2</sup>	0.4 x 10 <sup>-6</sup>
Output Offset	200mV nom.
Bandwidth	DC – 1MHz
Power Requirements	+,- 5VDC to +,- 15VDC, 10 mA