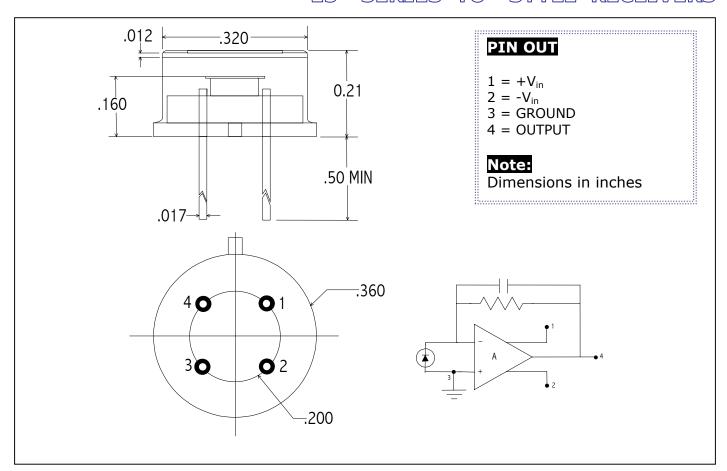


E5 - SERIES TO - STYLE RECEIVERS



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 Obtaining stable, long term operation will require suitable heat sinking. failure of the unit.

SPECIFICATIONS			
Detector Type	3mm Dia InGaAs Photodiode		
Wavelength Range	900 – 1700 nm		
Part Number	IGA-030-E5/0.5k	IGA-030-E5/5k	IGA-030-E5/1M
Output Responsivity, V/W	10 ⁸ @ 1300nm	10 ⁶ @ 1300nm	10 ⁴ @ 1300nm
Output Noise, V/Hz ^{1/2}	5.0 x 10 ⁻⁶	0.7 x 10 ⁻⁶	0.1 x 10 ⁻⁶
Bandwidth	DC - 500Hz	DC – 5kHz	DC - 1MHz
Power Requirements	+,- 5VDC to +,- 15VDC, 10 mA		