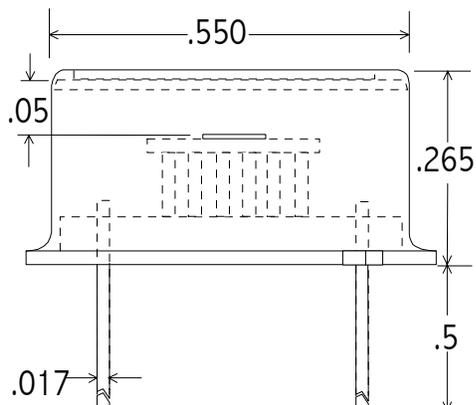


TO - STYLE PHOTODIODE / AMPLIFIER



InGaAs - E8 - SERIES

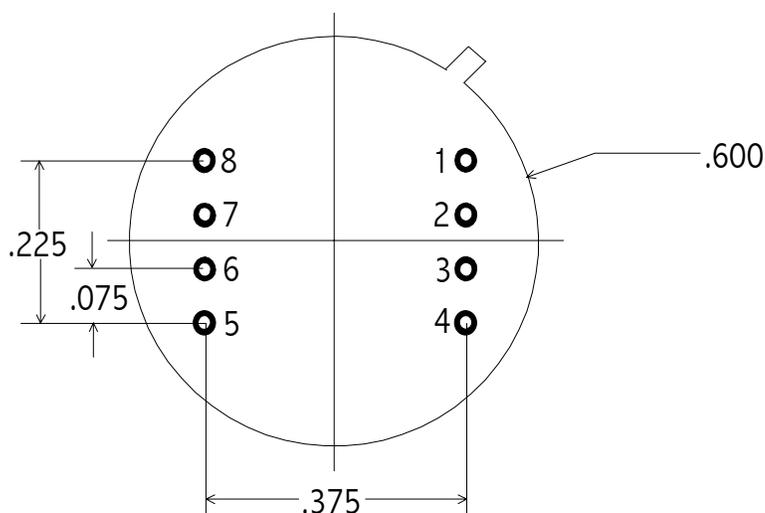
PIN OUT

- 1 = Offset Adj
- 2 = Inv In / Photodiode Cathode
- 3 = N-Inv In / Photodiode Anode
- 4 = -V
- 5 = Gain Select
- 6 = Output
- 7 = +V
- 8 = Offset Adj

Note: Dimensions in Inches

OPERATING INSTRUCTIONS:

This unit is a high performance photodiode/transimpedance amplifier unit. The output voltage is equal to the optical signal power multiplied by the photodiode responsivity in A/W and the feedback resistance in ohms. The unit is DC-coupled and should be shielded from stray or room lights to avoid saturation of the amplifier.



Part Number	IGA-010-E8	IGA-020-E8	IGA-030-E8	IGA-050-E8
Active Area	1mm dia	2mm dia	3mm dia	5mm dia
Operating Wavelength	900 - 1700 nm			
Photodiode Shunt Resistance (MΩ)	100.	10.	5.	1.
Photodiode Shunt Capacitance (pF)	100. typ	400. typ	1100. typ	2500. typ
* Output Responsivity @ 1300nm, HI/LO (V/W)	10 ⁹ / 10 ⁸	10 ⁸ / 10 ⁷	10 ⁸ / 10 ⁷	10 ⁷ / 10 ⁶
Bandwidth (Hz)	DC - 100	DC - 2k	DC - 2k	DC - 10k
NEP (100Hz, 1300nm) (W/Hz ^{1/2})	< 1.5 x 10 ⁻¹⁴	< 4 x 10 ⁻¹⁴	< 6 x 10 ⁻¹⁴	< 1.5 x 10 ⁻¹³
* Note: Other gain values can be specified				