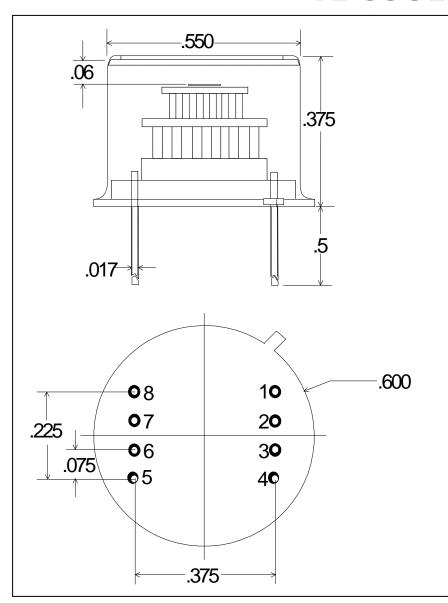




## TE COOLED PHOTODIODE



Part No: IGA-030-TE2

## **PIN OUT**

1 = COOLER(-)

2 = THERMISTOR

3 = THERMISTOR

4 = COOLER(+)

**5 = DETECTOR CATHODE** 

**6 = DETECTOR ANODE** 

7 = NO CONNECT

8 = NO CONNECT

**Note:** Dimensions in inches

## Operating Note

The TE cooled photodiode series consists of a high performance photodiode mounted on thermoelectric cooler, all housed in a TO-8 package. A thermistor is mounted to the TEC's cold plate to precise, reliable provide а temperature monitor. Before VERIFY **ELECTRICAL** operation WIRING, else catastrophic damage may be sustained by the unit. Electrical power consumption can exceed 2.5 Watts (2V / 1.25A); therefore, this package must be suitably heat sunk. Thermal grease secure clamping recommended for power dissipation. Temperature levels below -45°C are possible with an optimized mechanical assembly.

SPECIFICATIONS		
Operating Temperature (°C)	22	-30
Shunt Resistance (MΩ), min	5	50
Shunt Capacitance (pF), typ	1000	1000
Responsivity @ 1.3 μm (A/W)	0.9	0.9
Thermistor Resistance (kΩ) typ	1.6	40.0
Cooler Current (A) typ	0.00	0.60
NEP (W/Hz½) @ 1.3 μm, 100Hz	<7.0 X 10 <sup>-14</sup>	<2.0 X 10 <sup>-14</sup>
Maximum Cooler Current (A)	1.25	

**RoHS Compliant**