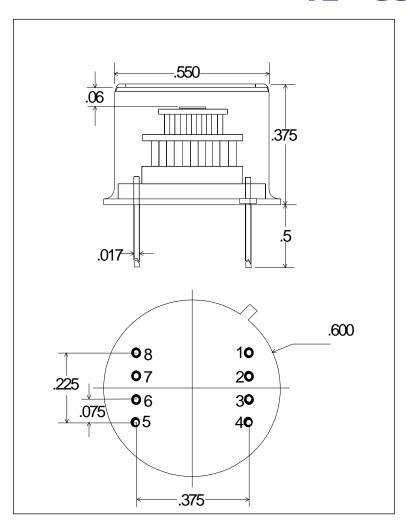
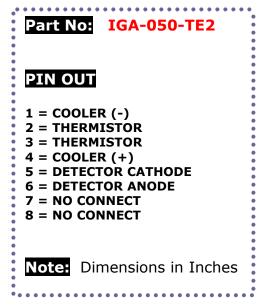


## TE - COOLED PHOTODIODE





## Operating Note

The TE cooled photodiode series consists of a high performance mounted photodiode thermoelectric cooler, all housed in a TO-8 package. A thermistor is mounted to the TEC's cold plate to provide а precise, reliable monitor. Before temperature VERIFY operation **ELECTRICAL** 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 with secure clamping is recommended for power dissipation. Temperature levels below  $-45^{\circ}$ C are possible with an optimized mechanical assembly.

SPECIFICATIONS		
Operating Temperature (°C)	22	-30
Shunt Resistance (MΩ)	0.25 min	10 min
Shunt Capacitance (pF)	1500 typ	1500 typ
Responsivity @ 1.3 μm (A/W)	0.9	0.9
NEP (W/Hz <sup>1/2</sup> ) @ 1.3 μm, 100Hz	< 2 x 10 <sup>-13</sup>	< 4 x 10 <sup>-14</sup>
Thermistor Resistance (kΩ)	1.8 typ	40 typ
Cooler Current (A)	0.00	0.65 TYP.
Maximum Cooler Current (A)	1.25	

**RoHS Compliant**