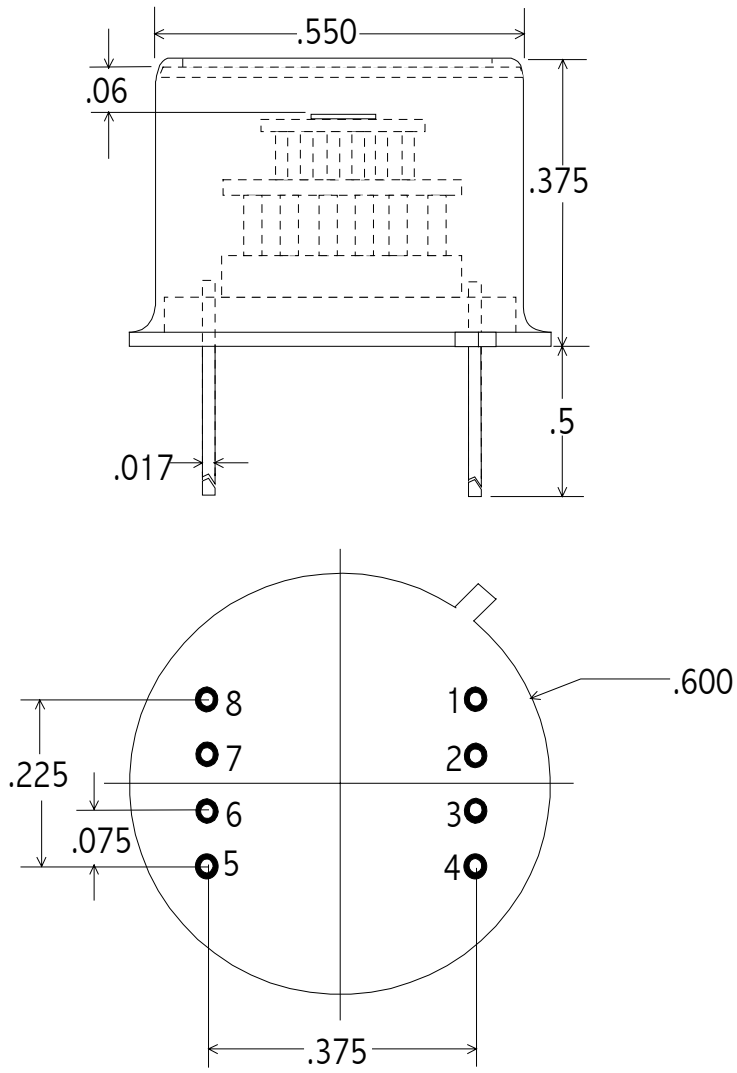
TE - COOLED PHOTODIODE



Part No: **UVS-010-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 a thermoelectric cooler, all housed in a TO-8 package. A thermistor is mounted to the TEC's cold plate to provide a precise, reliable temperature monitor. Before operation VERIFY 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°C are possible with an optimized mechanical assembly.

SPECIFICATIONS – 1mm dia UV Silicon Photodiode		
Operating Temperature (°C)	22	-30
Shunt Resistance (MΩ)	500	> 1000
Shunt Capacitance (pF)	50 typ	50 typ
Responsivity @ 800 nm (A/W)	0.55	0.55
Thermistor Resistance (kΩ)	1.8 typ	40 typ
Cooler Current (A)	0.00	0.65 TYP.
Maximum Cooler Current (A)	1.25	

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