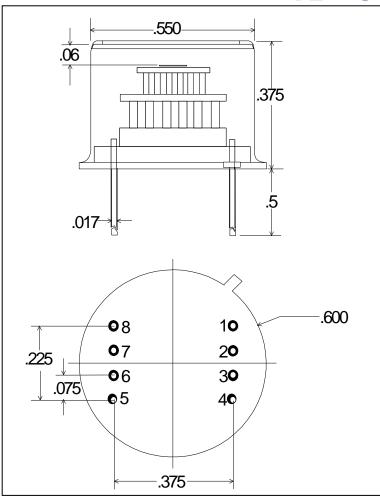




TE - COOLED PHOTODIODES



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 package. A thermistor mounted to the TEC's cold plate to provide а precise, reliable 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 with secure clamping is recommended for power dissipation. Temperature levels below -45° C are possible with an optimized mechanical assembly.

SPECIFICATIONS - GERMANIUM PHOTODIODES				
Part Number		G - 030 - TE2		
Operating Temperature (°C)		22	-30	
Wavelength Range		0.8 - 1.8	0.8 - 1.7	
Responsivity (A/W @ 1.5 μm)	0.9			
Shunt Resistance (Ω)		40 k	10 M	
Shunt Capacitance (pF)		13000	13000	
NEP @ 1.5 μm (W/Hz ^{1/2})		7 x 10 ⁻¹³	4x 10 ⁻¹⁴	
Thermistor Resistance (kΩ)		1.5 typ	40.0 typ	
Cooler Current (A)		0.00	0.60 TYP.	
Maximum Cooler Current (A)	1.25			