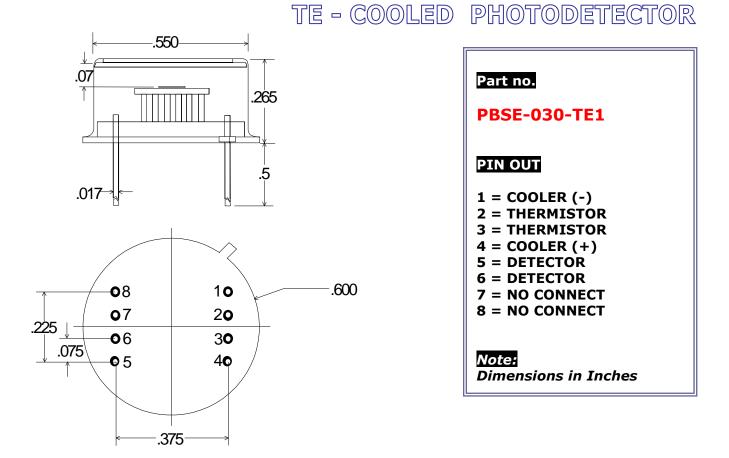


Detector Components



The TE cooled photodetector series consists of a high performance **Operating Note** photoconductor 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 1 watt (1V / 1.00A); therefore, this package must be suitably heat sunk. with clamping recommended Thermal arease secure is for power dissipation. Temperature levels below -10° C are possible with an optimized mechanical assembly.

SPECIFICATIONS		
Operating Temperature (°C)	22	-10
Active Area	3 mm x 3 mm	
Detector Resistance (Ω), typ	0.2 - 1.0 M	0.5 - 4.0 M
Responsivity (4.2 μ m) V/W,	> 2000	> 5000
D*(4.2 μm,1 kHz) cm-Hz ^{1/2} /W	> 3 x10 ⁹	> 1 x10 ¹⁰
Thermistor Resistance (k Ω)	1.7 nom	7.5 nom
Cooler Current (A)	0.0	0.65
Maximum Cooler Current (A)	1.00	