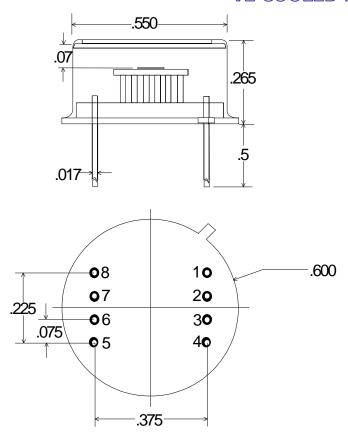
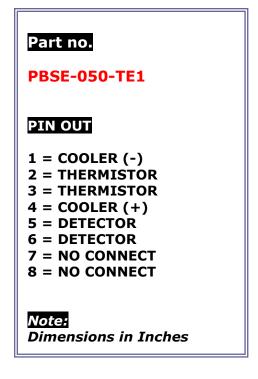




TE COOLED PBSE - SERIES PHOTOCONDUCTOR





Operating Note

The TE cooled photodetector series consists of a high performance 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. Thermal grease with secure clamping is recommended for power dissipation. Temperature levels below -10°C are possible with an optimized mechanical assembly.

SPECIFICATIONS		
Operating Temperature (°C)	22	-10
Active Area	5 mm x 5 mm	
Detector Resistance (Ω), typ	0.2 - 1.0 M	0.5 - 4.0 M
Responsivity (4.2 μm) V/W,	> 1000	> 3000
D*(4.2 μ m,1 kHz) cm-Hz ^{1/2} /W	> 2 x10 ⁹	> 5 x10 ⁹
Thermistor Resistance ($k\Omega$)	1.7 nom	7.5 nom
Cooler Current (A)	0.0	0.65
Maximum Cooler Current (A)	1.00	