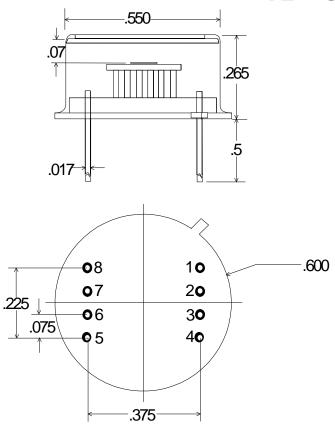


TE - COOLED PHOTODETECTOR





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	6 mm x 6 mm	
Detector Resistance (Ω), typ	0.5 - 2.0 M	0.7 - 4.0 M
Responsivity (2.6um) V/W,	> 0.5 x 10 ⁵	> 1 x 10 ⁵
D*(2.6um,500Hz,1Hz) cm-Hz ^{1/2} /W	> 6 x10 ¹⁰	> 1.5 x10 ¹¹
Thermistor Resistance (kΩ)	1.7 nom	7.5 nom
Cooler Current (A)	0.0	0.65
Maximum Cooler Current (A)	1.00	

RoHS Compliant