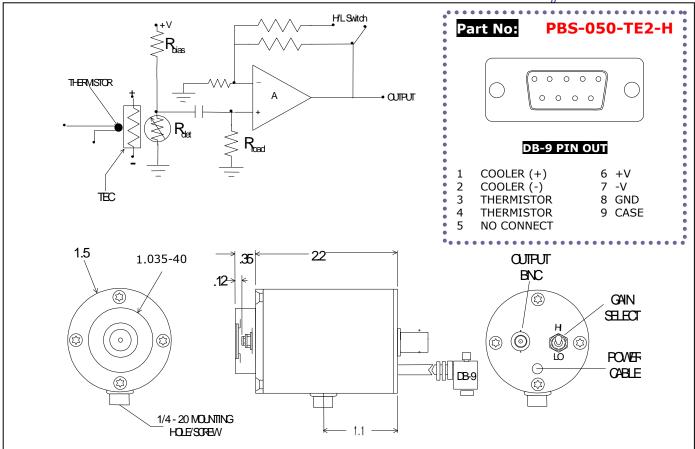


## H - SERIES PHOTOCONDUCTOR / RECEIVER



This unit is a high performance photoconductor/receiver operated with a thermoelectric cooler for stabilization/cooling with a dual gain voltage amplifier. The detector's bias voltage is linked to the amplifier power supply and no additional biasing is necessary. The PC/AMP is an AC coupled, dual gain detector system requiring a modulated input signal for operation.

| SPECIFICATIONS                         |   |   |
|--|---|---|
| Detector Type                          | 5 x 5 mm PbS Photoconductor   |   |
| Operating Temperature- °C              | 22 @ I <sub>tec</sub> = 0.0 A   | -20 @ I <sub>tec</sub> = 0.65 A           |
| Operating Wavelength - μm              | 1.0 - 2.8   | 1.0 - 2.8                                 |
| Responsivity- V/W @ 2.6                | 10 <sup>6</sup> / 10 <sup>5</sup>   | 2 x 10 <sup>6</sup> / 10 <sup>5</sup> typ |
| Noise- V/Hz <sup>1/2</sup> @ 400 Hz    | 7.5 x 10 <sup>-6</sup> / 10 <sup>-7</sup>   | 5 x 10 <sup>-6</sup> / 10 <sup>-7</sup>   |
| NEP- W/Hz <sup>1/2</sup> @ 2.6, 400 Hz | < 6.5 x 10 <sup>-12</sup>   | < 2.5 x 10 <sup>-12</sup>                 |
| Bandwidth (-3dB)- Hz                   | 5 - 500   | 5 - 400                                   |
| Power Requirements                     | +/- 9 VDC to +/- 15 VDC   |   |
| Connections                            | BNC signal output. Shielded power cable terminated with a DB-9 connector directly couples the unit with the PS/TC-1 Low Noise Power Supply. |   |

**RoHS Compliant**