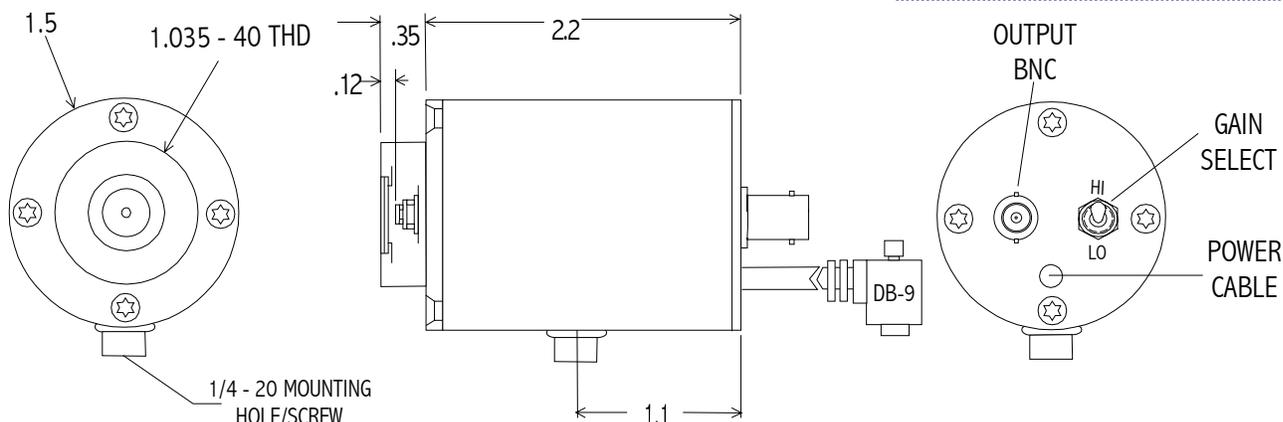
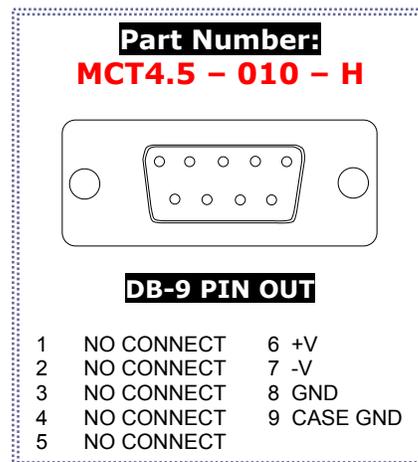
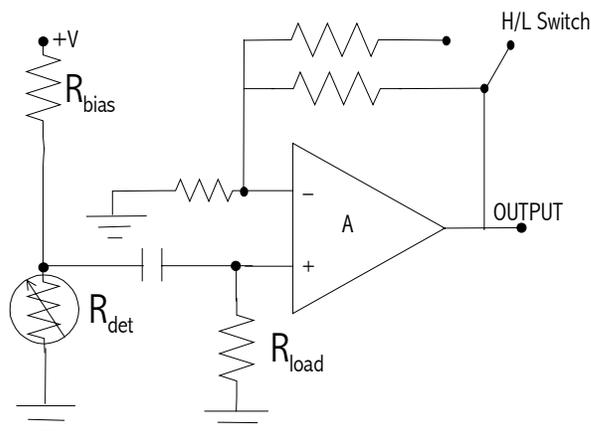


MCT - SERIES PHOTOCONDUCTOR / RECEIVER



Application Note This unit is a high performance photoconductor/receiver operated at ambient temperature 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	1 x 1 mm HgCdTe Photoconductor
Operating Temperature- °C	22
Operating Wavelength - μm	1.0 - 4.5
Responsivity - V/W @ pk	10⁵ / 10⁴
Noise - V/Hz^{1/2}	5 x 10⁻⁶ / 10⁻⁷
D* - cm - Hz^{1/2} / W @ pk	> 1 x 10¹⁰
Bandwidth (-3dB)- Hz	5 - 50 k +
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 -1 Low Noise Power Supply.