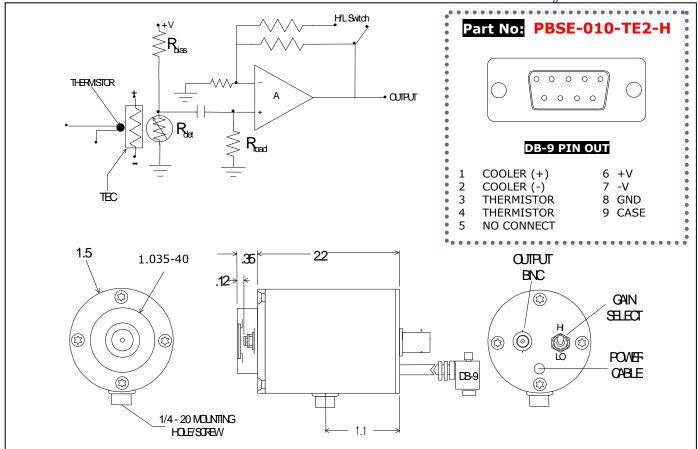


H - SERIES PHOTOCONDUCTOR / RECEIVER



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	1 x 1 mm PbSe Photoconductor	
Operating Temperature - °C	22 @ I _{t e c} = 0.0 A	-30 @ I _{tec} = 0.6 A
Operating Wavelength - μm	1.0 - 4.5	1.0 - 4.5
Responsivity - V/W @ 4.2	10 ⁶ / 10 ⁵	2 x 10 ⁶ / 10 ⁵ typ
Noise - V/Hz ^{1/2} @ 1k Hz	2 x 10 ⁻⁵ / 10 ⁻⁶	1.0 x 10 ⁻⁵ / 10 ⁻⁶
NEP - W/Hz ^{1/2} @ 4.2, 1k Hz	< 2 x 10 ⁻¹¹	< 5 x 10 ⁻¹²
Bandwidth (-3dB) - Hz	5 – 10 k	5 – 10 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/TC-1 Low Noise Power Supply.	

RoHS Compliant