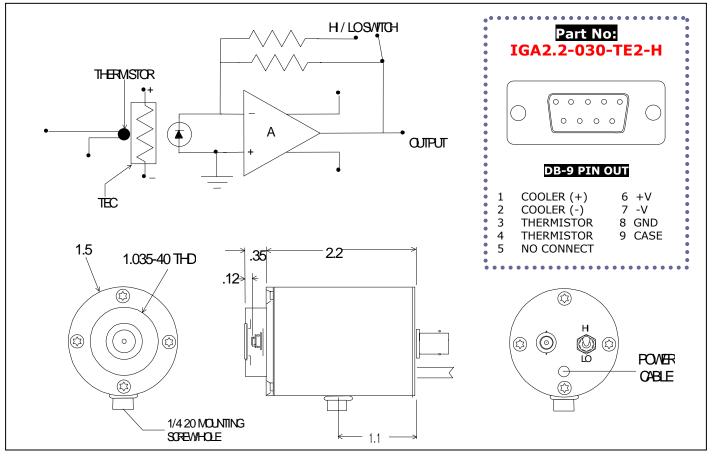


Receiver Modules

H - SERIES PHOTODIODE / RECEIVER



Application photodiode/receiver This unit is а high performance operated a thermoelectric cooler for stabilization/cooling with with a dual gain FET input transimpedence amplifier. The output voltage is proportional to the input signal current: $V_{out} = I_{signal} \cdot R_{f}$

The PD/AMP is a DC coupled dual gain system. Care should be taken in shielding the unit from stray light during operation to prevent saturation of the amplifier (and potential failure).

SPECIFICATIONS

Detector Type	3mm InGaAs Photodiode	
Operating Temperature- °C	25 @ I _{tec} = 0.0 A	-20 @ I _{tec} = 0.6 A
Operating Wavelength - µm	1.2 – 2.5	1.2 - 2.5
Responsivity- V/W @ pk	1.2 x 10 ⁶ / 10 ⁵	1.2 x 10 ⁶ / 10 ⁵
Noise- V/Hz ^{1/2} @ 100 Hz	1.0 x 10 ⁻⁵ / 10 ⁻⁶	1.8 x 10 ⁻⁶ / 10 ⁻⁷
NEP - W/Hz^{1/2} @ 2.2 μm	< 9.0 x 10 ⁻¹²	< 1.0 x 10 ⁻¹²
Bandwidth (-3dB)- Hz	DC – 2k	DC – 2k
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