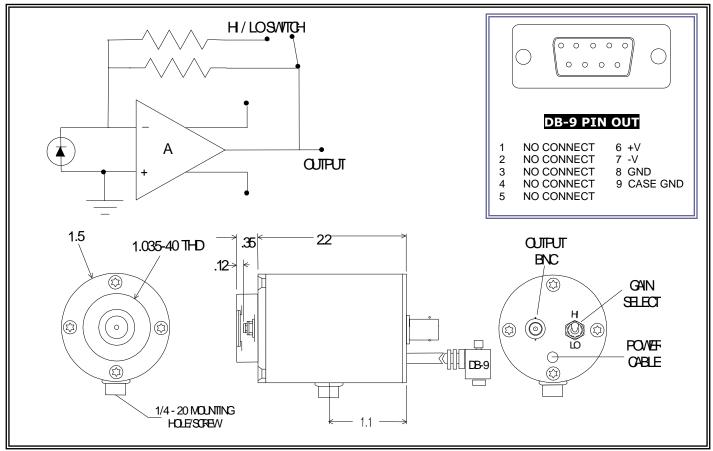


to

SILICON PHOTODIODE RECEIVERS



This unit is a high performance photodiode/receiver operated with at ambient temperature 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 prevent saturation of the amplifier (and potential failure).

SPECIFICATIONS @ 22° C NOM.		
Part Number	S - 010 - H	
Active Area	1 mm dia	
Operating Wavelength- μm	0.3 - 1.0	
Responsivity- V/W @ pk	0.5 x 10 ⁹ / 10 ⁸	
Noise- V/Hz ^{1/2}	5.0 x 10 ⁻⁶ / 0.5 x 10 ⁻⁶	
NEP- W/Hz ^{1/2} @ pk	< 1.0 x 10 ⁻¹⁴	
Bandwidth (-3dB)- Hz	DC - 500 / 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 -1 Low Noise Power Supply.	

RoHS Compliant

UVS and S-series PHOTODIODE Typical Spectral Response - 22C

