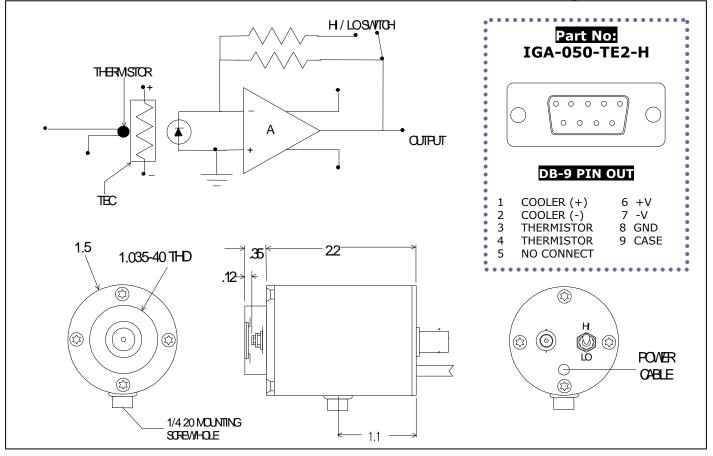


Receiver Modules

TE - SERIES PHOTODIODE / RECEIVER



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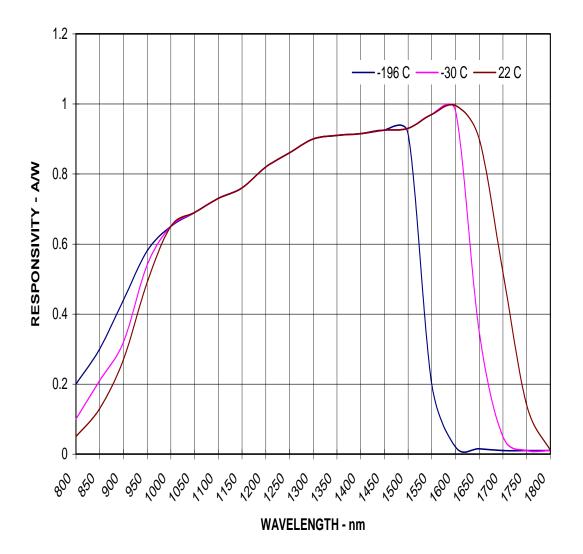
SPECIFICATIONS		
Detector Type	5mm InGaAs Photodiode	
Operating Temperature- °C	22 @ I _{tec} = 0.0 A	-30 @ I _{tec} = 0.5 A
Operating Wavelength - µm	0.8 - 1.7	0.8 - 1.6
Responsivity- V/W @ pk	0.9 x 10 ⁸ / 10 ⁷	0.9 x 10 ⁸ / 10 ⁷
Noise- V/Hz ^{1/2}	22. x 10 ⁻⁶ / 2.2 x 10 ⁻⁶	4.0 x 10 ⁻⁶ / 0.4 x 10 ⁻⁶
NEP- W/Hz ^{1/2} pk	< 2 x 10 ⁻¹³	< 4.0 x 10 ⁻¹⁴
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 / Controller.	

RoHS Compliant



TE - SERIES PHOTODIODE / RECEIVER

IGA-series PHOTODIODE Typical Spectral Response







TE - SERIES PHOTODIODE / RECEIVER

OPERATING THE H-SERIES PHOTODIODE/AMPLIFIER

POWER SUPPLY: A bipolar power supply is required, +,-6VDC to +,-15VDC, 20mA. This means a +V, central/common ground and a -V connection -3 wires total, to pins 6, 7, & 8 on the D-sub connector. The power supply pins should be bypassed physically close to the amplifier module. Double check wiring prior to turning on power. Improper /reverse wiring will damage the unit.

GAIN SELECT: The unit is supplied with a switch which provides a 10:1 HI/LO gain function. "UP" position is HI; "DOWN" position is LO gain. Consult the individual data sheet for specific values. The adjustable gain units have a single-turn control potentiometer which adds another x1 to x10 variable gain following the first stage. Clockwise rotation of the pot increases the gain.

AMBIENT LIGHT: Because of the high gains involved, the unit must be shielded from ambient background light during operation. Measurement errors and/or saturation can result from improper shielding.

OUTPUT CONNECTION: The signal output is thru a BNC connector (or BNC terminated cable in the case of the 2-color and adjustable gain units) located on the back of the module.