

INGAAS DETECTOR CONTROLLER

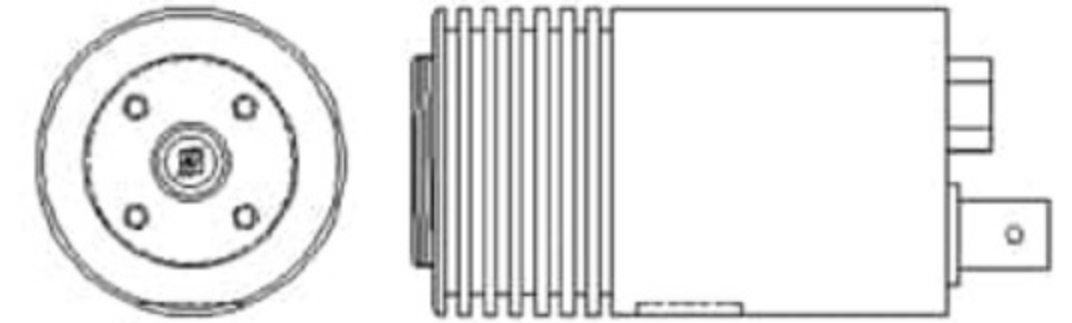
AP300-T2 - TE-COOLED INFRARED SENSOR

FEATURES

- › 1.2 to 2.6um Sensitivity
- › Extended InGaAs Sensor
- › 0.5, 1.0 and 2.0mm dia. Active Areas
- › Compact Size - 1.5" Dia x 2.5"
- › 2-Stage Thermo-Electric Cooling
- › Flexible Mounting Options

APPLICATIONS

- › IR Sensing
- › Gas Detection
- › R&D



DESCRIPTION

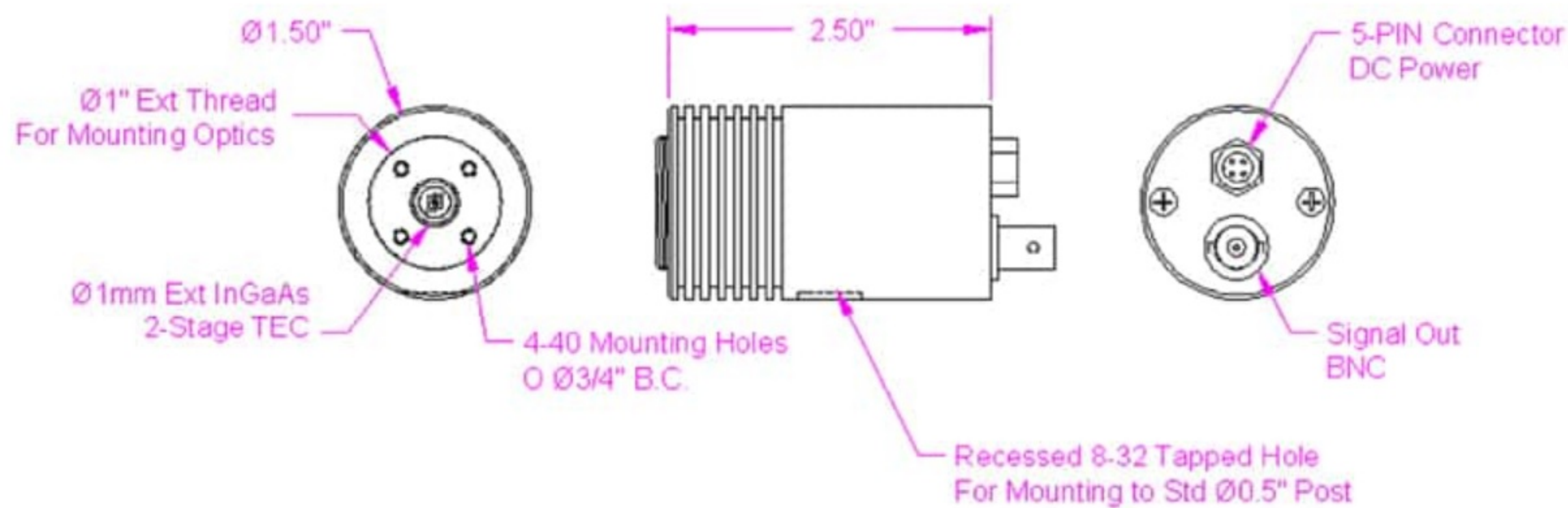
The AP300-1-T2 is an amplified inGaAs sensor with a 2-stage thermo-electric cooler (TEC). A low noise amplifier provides detector-noise limited performance in a compact package. The 2-stage TEC ensures low noise operation up to 2.6um and a large 1mm² active area provides generous light collection. All that is needed is a DC power supply.

OEM custom configurations welcome. Please contact us to discuss your requirements.

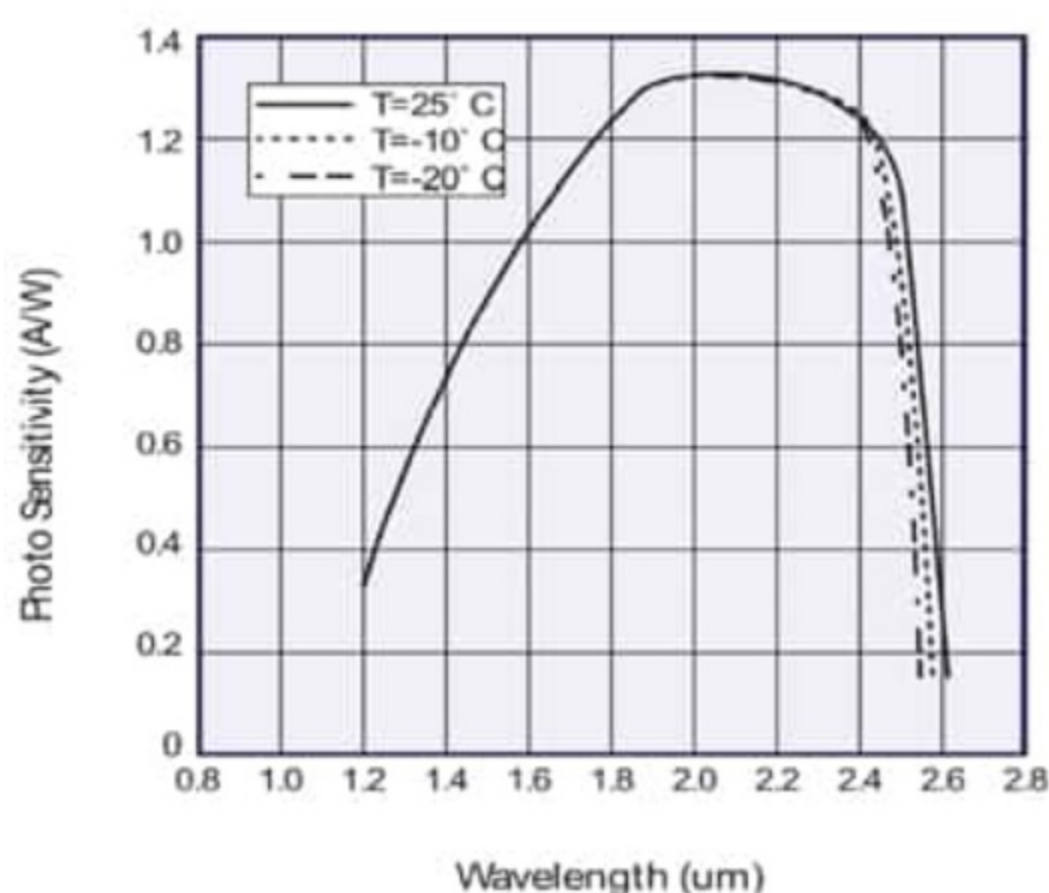
SPECIFICATIONS

Part Number:	AP300T2-5	AP300T2-1	AP300T2-2
Active Area Dia (mm):	0.5	1.0	2.0
Detector:	Extended InGaAs		
Detector Operating Temp (°C):	-20 °C		
Peak Wavelength:	2.3um		
Responsivity:	2.0 x 10 ⁸ V/W		
NEP (W/√Hz):	3 x 10 ⁻¹³	5 x 10 ⁻¹³	9 x 10 ⁻¹³
Frequency Response:	DC - 5KHz		
Output Voltage:	10V		
DC Power Supply:	+/- 12V @ 50mA		
TEC Power Supply:	3.3V @ 1.1A		

DIMENSIONS



Spectral Response



Distributor



amSTECHNOLOGIES
where technologies meet solutions

info@amstechnologies.com
www.amstechnologies-webshop.com

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