



Sensors > Optical Sensors > Photodiode Sensors



Optical Detector Type: **Avalanche Photodiode**

Total Active Area: **.2 mm<sup>2</sup> [ .0003 in<sup>2</sup> ]**

Active Area Diameter: **.5 mm [ .019 in ]**

Operating Wavelength: **750 – 910 nm**

Sensor Package: **Transistor Outline (TO)**

## Features

### Product Type Features

Optical Sensor Product Type	Detector
Optical Detector Type	Avalanche Photodiode
Sensor Package	Transistor Outline (TO)

### Signal Characteristics

Operating Wavelength	750 – 910 nm
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### Dimensions

Total Active Area	.2 mm <sup>2</sup> [.0003 in <sup>2</sup> ]
Active Area Diameter	.5 mm[.019 in]

### Usage Conditions

Operating Temperature Range	-40 – 100 °C[-104 – 212 °F]
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### Operation/Application

Optical Sensor Application	Distance Measurement, High Speed Optical Communication, Laser Range Finder, LIDAR, Medical Equipment, Photometry
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## Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Not Yet Reviewed

China RoHS 2 Directive MIIT Order No 32, 2016

No Restricted Materials Above Threshold

EU REACH Regulation (EC) No. 1907/2006

Current ECHA Candidate List: JUNE 2024  
(241)Candidate List Declared Against: JUL 2021  
(219)

Does not contain REACH SVHC

Halogen Content

Not Yet Reviewed for halogen content

Solder Process Capability

Not reviewed for solder process capability

## Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

## Documents

## CAD Files

## Customer View Model

[ENG\\_CVM\\_CVM\\_3001380-F\\_1.2d\\_dxf.zip](#)

English

## Customer View Model

[ENG\\_CVM\\_CVM\\_3001380-F\\_1.3d\\_igs.zip](#)

English

## 3D PDF

3D

## Customer View Model

[ENG\\_CVM\\_CVM\\_3001380-F\\_1.3d\\_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

## Datasheets &amp; Catalog Pages

[AD500-9\\_TO52S1F2](#)

English

[AD500-9 TO \(TO52S1F2;BP905;160-200V\)](#)

English