



Sensors > Optical Sensors > Photodiode Sensors



Optical Sensor Product Type: **Detector**

Optical Detector Type: **Avalanche Photodiode**

Total Active Area: **1 mm<sup>2</sup> [.001 in<sup>2</sup>]**

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

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

Features

Product Type Features

Optical Sensor Product Type	Detector
Optical Detector Type	Avalanche Photodiode

Signal Characteristics

Operating Wavelength	800 – 905 nm
----------------------	--------------

Dimensions

Total Active Area	1 mm <sup>2</sup> [.001 in <sup>2</sup> ]
Active Area Diameter	.5 mm[.019 in]
Active Area Width	.5 mm[.019 in]

Usage Conditions

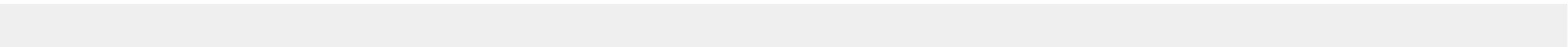
Operating Temperature Range	-40 – 100 °C[-104 – 212 °F]
-----------------------------	-----------------------------

Operation/Application

Optical Sensor Package	Transistor Outline (TO)
Optical Sensor Application	Distance Measurement, High Speed Optical Communication, Laser Range Finder, LIDAR, Medical Equipment, Photometry

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: JAN 2023 (233) 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 & Catalog Pages

[AD500-9\\_TO52S1F2](#)

English

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

English

3001380-F

Photodiode Sensor Detector, Avalanche Photodiode, 1 mm<sup>2</sup> [.001 in<sup>2</sup>] Active Area, .5 mm [.019 in] Active Area Diameter

