



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: **Surface Mounted Device (SMD)**

Features

Product Type Features

|                             |                              |
|-----------------------------|------------------------------|
| Optical Sensor Product Type | Detector                     |
| Optical Detector Type       | Avalanche Photodiode         |
| Sensor Package              | Surface Mounted Device (SMD) |

Signal Characteristics

|                      |              |
|----------------------|--------------|
| Operating Wavelength | 750 – 910 nm |
|----------------------|--------------|

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 | -20 – 70 °C[-4 – 158 °F] |
|-----------------------------|--------------------------|

Operation/Application

|                            |                                                                                                                  |
|----------------------------|------------------------------------------------------------------------------------------------------------------|
| 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 | 有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold                                                                        |
| EU REACH Regulation (EC) No. 1907/2006        | Current ECHA Candidate List: JUNE 2025 (250)<br>Candidate List Declared Against: JUL 2021 (219)<br>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>

Customers Also Bought



TE Part #114017-ZZ  
SEALING PLUG, SIZE 12/16, WHT



TE Part #DT06-2S  
PLG, 2P, GRY, N



TE Part #CAT-D48-ST273  
DEUTSCH Solid Contacts



TE Part #CAT-D487-W416  
Wedgelocks: DEUTSCH DT



TE Part #DT04-2P  
REC, 2P, GRY, N



TE Part #281934-2  
SINGLE WIRE SEAL



TE Part #CAT-AM71-CH8172  
AMP SUPERSEAL 1.5MM,  
CONNECTOR HOUSING

Documents

- CAD Files
- Customer View Model
- ENG\_CVM\_CVM\_3001495-F\_1.2d\_dxf.zip
- English



Customer View Model

[ENG\\_CVM\\_CVM\\_3001495-F\\_1.3d\\_stp.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_3001495-F\\_1.3d\\_igs.zip](#)

English

[3D PDF](#)

3D

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

Datasheets & Catalog Pages

[AD500-9\\_SMD](#)

English

[AD500-9 SMD \(LCC6.1f;BP905;160-200V\)](#)

English