



TE Internal #: 2389830-1  
Vertical, Wire-to-Board, 48 Position, 6 Row, 2.5mm [.098in]  
Centerline, Tin over Nickel, Sealable, Printed Circuit Board, Power,  
Black, Board Mount  
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Automotive Parts > Automotive Connectors > Automotive Headers



PCB Mount Orientation: **Vertical**  
Termination Method to PCB: **Through Hole - Solder**  
Sealable: **Yes**  
Centerline (Pitch): **2.5 mm [ .098 in ]**  
Connector System: **Wire-to-Board**

Features

Product Type Features

|                                   |                       |
|-----------------------------------|-----------------------|
| Connector Product Type            | Connector Assembly    |
| Mixed & Hybrid Header             | No                    |
| Header Type                       | Fully Shrouded        |
| Connector Shape                   | Rectangular           |
| Sealable                          | Yes                   |
| Connector System                  | Wire-to-Board         |
| Connector & Contact Terminates To | Printed Circuit Board |

Configuration Features

|                       |          |
|-----------------------|----------|
| Number of Sections    | 1        |
| PCB Mount Orientation | Vertical |
| Number of Positions   | 48       |
| Number of Rows        | 6        |

Body Features

|                         |   |
|-------------------------|---|
| Connector & Keying Code | J |
|-------------------------|---|



|                       |       |
|-----------------------|-------|
| Primary Product Color | Black |
|-----------------------|-------|

Contact Features

|                                      |                 |
|--------------------------------------|-----------------|
| Mating Tab Width                     | 1.2 mm[.047 in] |
| Mating Tab Thickness                 | .6 mm[.023 in]  |
| Contact Type                         | Tab             |
| Contact Mating Area Plating Material | Tin over Nickel |

Termination Features

|                           |                       |
|---------------------------|-----------------------|
| Termination Method to PCB | Through Hole - Solder |
|---------------------------|-----------------------|

Mechanical Attachment

|                         |              |
|-------------------------|--------------|
| PCB Mount Retention     | With         |
| Mounting Holes          | With         |
| Mating Alignment Type   | Polarization |
| Mating Alignment        | With         |
| PCB Mount Alignment     | With         |
| Connector Mounting Type | Board Mount  |

Housing Features

|                    |                 |
|--------------------|-----------------|
| Centerline (Pitch) | 2.5 mm[.098 in] |
|--------------------|-----------------|

Dimensions

|                             |                  |
|-----------------------------|------------------|
| Connector Width             | 73.3 mm[2.88 in] |
| PCB Thickness (Recommended) | 2 mm[.078 in]    |
| Connector Length            | 39.5 mm[1.55 in] |
| Profile Height from PCB     | 39.5 mm[1.55 in] |

Usage Conditions

|                             |                            |
|-----------------------------|----------------------------|
| Operating Temperature (Max) | 125 °C[257 °F]             |
| Operating Temperature Range | -40 – 125 °C[-40 – 257 °F] |

Operation/Application

|                     |       |
|---------------------|-------|
| Circuit Application | Power |
|---------------------|-------|

Industry Standards

|           |             |
|-----------|-------------|
| IP Rating | IPX7, IPX9K |
|-----------|-------------|

Packaging Features

|                    |    |
|--------------------|----|
| Packaging Quantity | 36 |
|--------------------|----|



|                  |         |
|------------------|---------|
| Packaging Method | Tray    |
| Other            |         |
| Interface Number | 2385803 |

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                   | Compliant                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 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: JUNE 2025 (250)<br>SVHC > Threshold:<br>Dodecamethylcyclohexasiloxane (D6) (.47% in Component)<br>Decamethylcyclopentasiloxane (D5) (.47% in Component)<br><b>Article Safe Usage Statements:</b><br>Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location. |
| Halogen Content                               | Low Halogen - Br, Cl, F < 900 ppm per homogenous material. Also BFR/CFR/PVC Free                                                                                                                                                                                                                                                                                                                                                                               |
| Solder Process Capability                     | Not reviewed for solder process capability                                                                                                                                                                                                                                                                                                                                                                                                                     |

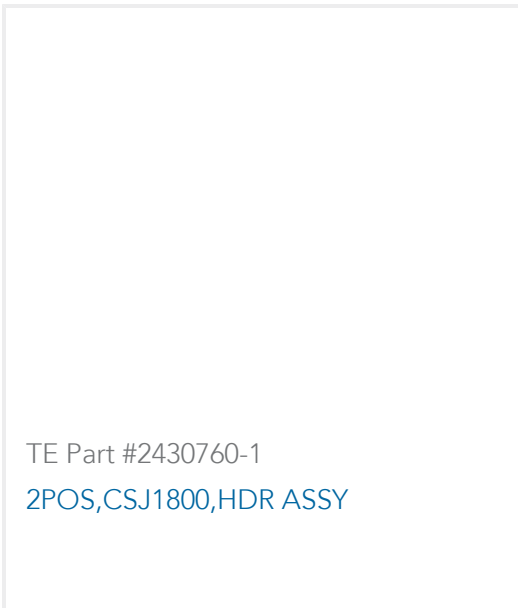
Product Compliance Disclaimer

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 Regulations, TE’s information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) ‘Guidance on requirements for substances in articles’(Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of ‘complex object’, the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA “Guidance on requirements for substances in articles” (June 2017, version 4.0) and will be updating its statements accordingly.

Compatible Parts



Customers Also Bought



Documents

Product Drawings  
48POS,TAB1.2X0.6,HDR ASSY,180DEG,SLDR  
English

CAD Files  
3D PDF  
3D  
Customer View Model  
ENG\_CVM\_CVM\_2389830-1\_A.2d\_dxf.zip

2389830-1

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English

Customer View Model

[ENG\\_CVM\\_CVM\\_2389830-1\\_A.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2389830-1\\_A.3d\\_stp.zip](#)

English

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