



MQS

TE Internal #: 1746979-1  
Horizontal, Wire-to-Board, 121 Position, 4 Rows, 2.54mm / 5.8mm [.1in / .228in] Centerline, Tin (Sn), Printed Circuit Board, Power & Signal, Black

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Automotive Parts > Automotive Connectors > Automotive Headers > High Pin Count Header



PCB Mount Orientation: **Horizontal**  
Termination Method to PCB: **Through Hole - Solder**  
Sealable: **No**  
Centerline (Pitch): **2.54 mm, 5.8 mm [ .1 in, .228 in ]**  
Connector System: **Wire-to-Board**

[All High Pin Count Header \(43\)](#)

Features

Product Type Features

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

Configuration Features

|                            |            |
|----------------------------|------------|
| Number of Signal Positions | 108        |
| Number of Sections         | 2          |
| PCB Mount Orientation      | Horizontal |
| Number of Positions        | 121        |
| Number of Rows             | 4          |



Electrical Characteristics

|                              |        |
|------------------------------|--------|
| Operating Voltage            | 12 VDC |
| Voltage Rating (Max)         | 12 VDC |
| Nominal Voltage Architecture | 12 V   |

Body Features

|                         |       |
|-------------------------|-------|
| Connector & Keying Code | A     |
| Primary Product Color   | Black |

Contact Features

|                                      |                                 |
|--------------------------------------|---------------------------------|
| Mating Tab Width                     | .63 mm, 2.8 mm[.025 in][.11 in] |
| Mating Tab Thickness                 | .63 mm, .8 mm[.025 in][.031 in] |
| Contact Type                         | Tab                             |
| Contact Mating Area Plating Material | Tin (Sn)                        |

Termination Features

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

Mechanical Attachment

|                          |                   |
|--------------------------|-------------------|
| Panel Mount Feature      | Without           |
| Mating Retention Type    | Locking Interface |
| PCB Mount Retention      | With              |
| Mounting Holes           | Without           |
| PCB Mount Retention Type | Boardlock         |
| Mating Alignment         | With              |
| PCB Mount Alignment      | With              |
| Connector Mounting Type  | Board Mount       |

Housing Features

|                    |                                 |
|--------------------|---------------------------------|
| Centerline (Pitch) | 2.54 mm, 5.8 mm[.1 in][.228 in] |
|--------------------|---------------------------------|

Dimensions

|                             |                  |
|-----------------------------|------------------|
| Connector Width             | 45 mm[1.38 in]   |
| PCB Thickness (Recommended) | 1.6 mm[.063 in]  |
| Profile Height from PCB     | 31.1 mm[1.22 in] |
| Connector Length            | 144 mm[5.669 in] |

Usage Conditions

|  |  |
|--|--|
|  |  |
|--|--|



|                             |                            |
|-----------------------------|----------------------------|
| Operating Temperature (Max) | 120 °C[248 °F]             |
| Operating Temperature Range | -40 – 120 °C[-40 – 248 °F] |

Operation/Application

|                     |                       |
|---------------------|-----------------------|
| Solder Process      | Reflow Solder Capable |
| Shielded            | No                    |
| Circuit Application | Power & Signal        |

Packaging Features

|                    |      |
|--------------------|------|
| Packaging Quantity | 50   |
| Packaging Method   | Tray |

Other

|                  |                                  |
|------------------|----------------------------------|
| Interface Number | 368376, 368383, 1473244, 1473252 |
|------------------|----------------------------------|

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 | No Restricted Materials 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>Does not contain REACH SVHC |
| Halogen Content                               | Low Halogen - Br, Cl, F < 900 ppm per homogenous material. Also BFR/CFR/PVC Free                                                |
| Solder Process Capability                     | Wave solder capable to 240°C                                                                                                    |

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>



Compatible Parts

TE Part # 1743145-6  
2.8MM TAB(L) FOR ECU 121P PBT

TE Part # 1743145-2  
2.8MM TAB(S) FOR ECU 121P PBT

TE Part # 1-368376-1  
81P REC HSG ASSY(BLK-B)

TE Part # 1743145-1  
2.8MM TAB(S) AS STAMP-ECU 121P

TE Part # CAT-M8793-CH8172  
MQS, CONNECTOR HOUSING

TE Part # 1743145-5  
2.8MM TAB(L) AS STAMP-ECU 121P

Customers Also Bought

TE Part #171366-1  
17P HOR CAP HSG WIRE TO PCB

TE Part #776266-1  
14POS,PIN DIA 1.3,HDR ASSY,90DEG, COD 1

TE Part #1376886-1  
3900281-442=S/S PLUG ASSY 44P

TE Part #1670720-2  
SLIDE,TAB HSG GROUP C

TE Part #1897294-2  
ECU 154P HDR ASSY

TE Part #1-5174480-1  
070 MLC CAP ASS'Y 42P (H)

TE Part #CAT-HPCH5372  
High Pin Count Header

TE Part #1903749-1  
MQS 81 POS HDR ASSY

TE Part #1-1447233-0  
950801-34=CAP HSG ASSY 34P G (H)



Documents

Product Drawings

ECU 121P HDR ASSY-PBT

Japanese

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_1746979-1\_A.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_1746979-1\_A.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_1746979-1\_A.3d\_stp.zip

English

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

Product Specifications

Product Specification

Japanese

Instruction Sheets

Instruction Sheet (non U.S.)

English

Instruction Sheet (non U.S.)

Japanese