# 1-316081-2 ✔ ACTIVE

Dynamic Series | Dynamic 3000 Series

TE Internal #: 1-316081-2

PCB Mount Header, Horizontal, Wire-to-Board, 12 Position, 5.08 mm [.2 in] Centerline, Fully Shrouded, Gold Flash or Gold, Dynamic 3000 Series

View on TE.com >

Connectors > PCB Connectors > PCB Headers & Receptacles > Header Assembly: Wire-to-Board, 15A, gold or tin plated



PCB Connector Type: **PCB Mount Header**

PCB Mount Orientation: **Horizontal**

Connector System: **Wire-to-Board**

Number of Positions: **12**

Centerline (Pitch): **5.08 mm [ .2 in ]**

All Header Assembly: Wire-to-Board, 15A, gold or tin plated (133)

## Features

### Product Type Features

| | |
|---|---|
| PCB Connector Type | PCB Mount Header |
| Connector System | Wire-to-Board |
| Header Type | Fully Shrouded |
| Sealable | No |
| Connector & Contact Terminates To | Printed Circuit Board |
| Connector Product Type | Connector Assembly |

### Configuration Features

| | |
|---|---|
| PCB Mount Orientation | Horizontal |
| Number of Positions | 12 |
| Number of Rows | 2 |

### Body Features

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

### Contact Features

| | |
|---|---|
| Contact Shape & Form | Rectangular |
| Contact Underplating Material | Nickel |
| Contact Base Material | Copper Alloy |

| | |
|---|---|
| Contact Mating Area Plating Material | Gold Flash or Gold |
| Contact Mating Area Plating Material Thickness | .381 µm[15 µin] |
| Contact Type | Pin |
| Contact Current Rating (Max) | 8 A |
| PCB Contact Termination Area Plating Material | Tin |

## Termination Features

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

## Mechanical Attachment

| | |
|---|---|
| PCB Mount Retention Type | Retention Leg |
| Mating Alignment Type | Keyed |
| PCB Mount Alignment | Without |
| Mating Retention | With |
| PCB Mount Retention | With |
| Connector Mounting Type | Board Mount |
| Mating Alignment | With |

## Housing Features

| | |
|---|---|
| Centerline (Pitch) | 5.08 mm[.2 in] |
| Housing Material | Thermoplastic Polyester GF |

## Dimensions

| | |
|---|---|
| Connector Width | 27.18 mm[1.07 in] |
| Connector Height | 16.97 mm[.66 in] |
| Connector Length | 39.4 mm[1.55 in] |

## Usage Conditions

| | |
|---|---|
| Operating Temperature (Max) | 105 °C[221 °F] |
| Operating Temperature Range | -55 – 105 °C[-67 – 221 °F] |

## Operation/Application

| | |
|---|---|
| Circuit Application | Power & Signal |

## Industry Standards

| | |
|---|---|
| UL Flammability Rating | UL 94V-0 |

## Packaging Features

| | |
|---|---|
| Packaging Quantity | 12 |

| | |
|---|---|
| Packaging Method | Box, Tube |

## 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 | Not Low Halogen - contains Br or Cl > 900 ppm. |
| Solder Process Capability | Wave solder capable to 265°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

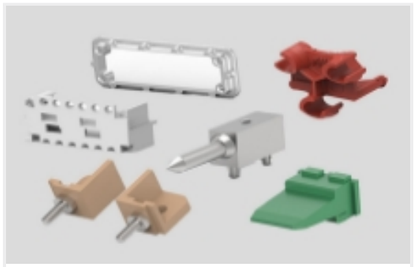


TE Part # 1-917659-6
DYNAMIC 3200 D/ROW REC HSG 12P

## Also in the Series | Dynamic 3000 Series



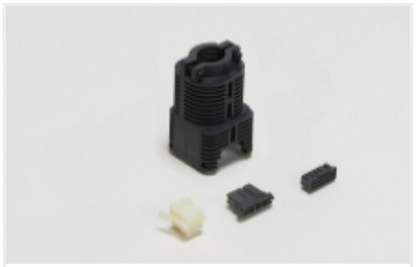
Connector Contacts(94)



Connector Hardware(8)



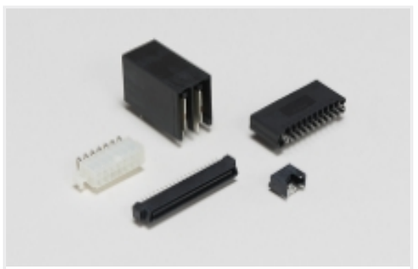
Power Contacts(94)



Rectangular Connector Housings(143)



Rectangular Power Connectors(443)



Standard Rectangular Connectors(167)



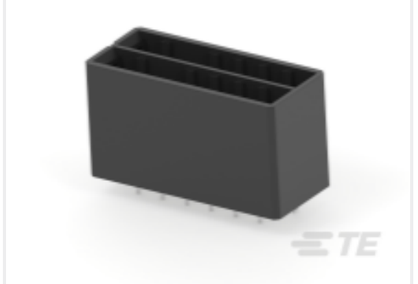
Wire-to-Board Connector Assemblies & Housings(92)

## Customers Also Bought



TE Part #CAT-D9934-A75E

Header Assembly: Wire-to-Board, 15A, gold or tin plated



TE Part #CAT-D9934-A75F

Header Assembly: Wire-to-Board, 15A, gold or tin plated



TE Part #1318127-2

DYNAMIC D2100 HDR V ASSY 20P



TE Part #1-2333134-3

DYNAMIC 1100D REC HSG X 26P BLACK 33%GF

## Documents

### CAD Files

3D PDF

English

Customer View Model

ENG_CVM_1-316081-2_B2.3d_igs.zip

English

Customer View Model

ENG_CVM_1-316081-2_B2.3d_stp.zip

English

Customer View Model

ENG_CVM_1-316081-2_B2.2d_dxf.zip

English

By downloading the CAD file I accept and agree to the Terms and Conditions of use.

### Datasheets & Catalog Pages

Datasheet - Ev-Charging Dynamic-Wire-To-Board-Connectors

English

## Agency Approvals

### UL

English