



MICTOR

TE Internal #: 6-1658016-3  
PCB Mount Header, Vertical, Board-to-Board, 120 Position, .8 mm [.031 in] Centerline, Gold, Surface Mount, Power & Signal, Black, Pocket Tape

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Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Assembly Type: **PCB Mount Header**  
PCB Mount Orientation: **Vertical**  
Connector System: **Board-to-Board**  
Number of Positions: **120**  
Centerline (Pitch): **.8 mm [ .031 in ]**

Features

Product Type Features

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

Configuration Features

|                                  |              |
|----------------------------------|--------------|
| Stackable                        | No           |
| Connector Contact Load Condition | Fully Loaded |
| PCB Mount Orientation            | Vertical     |
| Number of Positions              | 120          |
| Board-to-Board Configuration     | Parallel     |

Electrical Characteristics

|                                       |         |
|---------------------------------------|---------|
| Dielectric Withstanding Voltage (Max) | 675 VAC |
| Insulation Resistance                 | 2 MΩ    |
| Impedance                             | 100 Ω   |



|                   |         |
|-------------------|---------|
| Operating Voltage | 125 VAC |
|-------------------|---------|

Body Features

|                                   |                |
|-----------------------------------|----------------|
| Assembly Process Feature Material | Polyimide Film |
| Primary Product Color             | Black          |

Contact Features

|                                                         |                     |
|---------------------------------------------------------|---------------------|
| PCB Contact Termination Area Plating Material Thickness | .25 µm[9.8425 µin]  |
| Mating Tab Width                                        | .38 mm[.015 in]     |
| Mating Tab Thickness                                    | .2 mm[.008 in]      |
| Contact Shape & Form                                    | Single Beam, Square |
| PCB Contact Termination Area Plating Material           | Gold                |
| Contact Base Material                                   | Phosphor Bronze     |
| Contact Mating Area Plating Material                    | Gold                |
|                                                         | 9.8425 µin          |
| Contact Type                                            | Pin                 |
| Contact Current Rating (Max)                            | 1.25 A, 9.5 A       |

Termination Features

|                                               |                 |
|-----------------------------------------------|-----------------|
| Rectangular Termination Post & Tail Thickness | .2 mm[.008 in]  |
| Rectangular Termination Post & Tail Width     | .94 mm[.037 in] |
| Termination Method to PCB                     | Surface Mount   |

Mechanical Attachment

|                          |                |
|--------------------------|----------------|
| PCB Mount Alignment Type | Locating Posts |
| Mating Retention         | With           |
| Mating Alignment         | Without        |
| PCB Mount Retention      | With           |
| PCB Mount Alignment      | With           |
| Connector Mounting Type  | Board Mount    |

Housing Features

|                    |                              |
|--------------------|------------------------------|
| Centerline (Pitch) | .8 mm[.031 in]               |
| Housing Material   | LCP (Liquid Crystal Polymer) |

Dimensions

|                  |                   |
|------------------|-------------------|
| Connector Height | 15.37 mm[.604 in] |
|                  | .158 in           |



|              |               |
|--------------|---------------|
| Stack Height | 16 mm[.63 in] |
|--------------|---------------|

Usage Conditions

|                             |                            |
|-----------------------------|----------------------------|
| Operating Temperature Range | -65 – 125 °C[-85 – 257 °F] |
|-----------------------------|----------------------------|

Operation/Application

|                          |                      |
|--------------------------|----------------------|
| Assembly Process Feature | Pick and Place Cover |
| Circuit Application      | Power & Signal       |

Industry Standards

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

Packaging Features

|                    |             |
|--------------------|-------------|
| Packaging Quantity | 125         |
| Packaging Method   | Pocket Tape |

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 2024 (241)<br>Candidate List Declared Against: JUNE 2024 (241)<br>Does not contain REACH SVHC |
| Halogen Content                               | Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free                                             |
| Solder Process Capability                     | Reflow solder capable to 260°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

|                                                                                                                                                  |                                                                                                                                                    |                                                                                                                                                    |                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>TE Part # 1658012-3<br/>MSB0.80RC-ASY120FL,-,10,-TY</p>     |  <p>TE Part # 2-1658012-3<br/>MSB0.80RC-ASY120FL,-,10,-TY</p>    |  <p>TE Part # 2-1658043-3<br/>MSB0.80RC-ASY120FL,-,F,-TY</p>    |  <p>TE Part # 2-1658462-3<br/>MSB0.80RC-ASY120FL,-,30,-TY</p>    |
|  <p>TE Part # 6-1658012-3<br/>MSB0.80RC-ASY120FL,GP,10,-TR</p> |  <p>TE Part # 1658043-3<br/>MSB0.80RC-ASY120FL,-,F,-TY</p>      |  <p>TE Part # 1658462-3<br/>MSB0.80RC-ASY120FL,-,30,-TY</p>    |  <p>TE Part # 4-1658012-3<br/>MSB0.80RC-ASY120FL,GP,10,-TR</p>  |
|  <p>TE Part # 4-1658043-3<br/>MSB0.80RC-ASY120FL,GP,F,-TR</p> |  <p>TE Part # 4-1658462-3<br/>MSB0.80RC-ASY120FL,GP,30,-TR</p> |  <p>TE Part # 6-1658043-3<br/>MSB0.80RC-ASY120FL,GP,F,-TR</p> |  <p>TE Part # 6-1658462-3<br/>MSB0.80RC-ASY120FL,GP,30,-TR</p> |

Customers Also Bought

|                                                                                                                                                             |                                                                                                                                    |                                                                                                                                                   |                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>TE Part #DT04-2P<br/>REC, 2P, GRY, N</p>                             |  <p>TE Part #DT06-2S<br/>PLG, 2P, GRY, N</p>   |  <p>TE Part #W2S<br/>Wedgelocks: DEUTSCH DT</p>              |  <p>TE Part #0460-202-16141<br/>DEUTSCH Solid Contacts</p> |
|  <p>TE Part #282104-1<br/>AMP SUPERSEAL 1.5MM,<br/>CONNECTOR HOUSING</p> |  <p>TE Part #281934-2<br/>SINGLE WIRE SEAL</p> |  <p>TE Part #114017-ZZ<br/>SEALING PLUG, SIZE 12/16, WHT</p> |                                                                                                                                                 |



Documents

Product Drawings

MSB0.80PL16ASY120FL,GP,10,-TR

English

CAD Files

Customer View Model

ENG\_CVM\_CVM\_6-1658016-3\_N.2d\_dxf.zip

English

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_6-1658016-3\_N.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_6-1658016-3\_N.3d\_stp.zip

English

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

Datasheets & Catalog Pages

MICTOR SB Interconnection System

English

MICTOR SB CONNECTORS

English

Product Specifications

Application Specification

English