



# BOARD-TO-BOARD HEADERS & RECEPTACLES



Active

PRODUCT DRAWING  
English

3D PDF

TE CONNECTIVITY (TE)

## 80 BMATE RCPT ASSY, PB FREE

CHAMP | CHAMP .050 Blindmate

787311-4

TE Internal Number: 787311-4

Always EU RoHS/ELV Compliant

Connector Style **Receptacle**

Centerline **1.27 mm [.05 in]**

Number of Positions **80**

Packaging Method **Tube**

Contact Mating Area Plating Material **Gold**

### Product Drawings

[RECEPTACLE ASSEMBLY, VERTICAL, CHAMP , BLINDMATE .050 SERIES I](#)

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### CAD Files

[3D PDF](#)

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[Customer View Model](#)

2D\_DXF.ZIP  
English

[Customer View Model](#)

3D\_IGS.ZIP  
English

[Customer View Model](#)

3D\_STP.ZIP  
English

### Product Specifications

Product Specification

[Connector, CHAMP, Blindmate, .050 Series I](#)

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Application Specification

[CHAMP .050 Series I Blindmate Plug And Receptacle Single Connector Attachments \(SCA\)-2](#)

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Qualification Test Report

[Connector, CHAMP\\*, Blindmate, .050 Series I](#)

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[Connector, CHAMP\\*, Blindmate, .050 Series I](#)

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### Product Environmental Compliance

TE Material Declaration

[MD\\_787311-4\\_051820151516\\_dmtec](#)

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### Instruction Sheets

### Seating Tool Assemblies 1320142-[] And 356198-[] For CHAMP .050 Series I Blindmate Press-Fit Connectors With Compliant Pin Contacts

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### Adapter Kits For GREENERD Manual Frame Assemblies 3A And 3B

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Please review product documents or [contact us](#) for the latest agency approval information. Please Note: Use the Product Drawing for all design activity.

|                       |                            |                              |
|-----------------------|----------------------------|------------------------------|
| Product Type Features | Connector Style            | <b>Receptacle</b>            |
|                       | PCB Mounting Orientation   | <b>Vertical</b>              |
|                       | Sealed Bottom              | <b>Without</b>               |
|                       | Applies To                 | <b>Printed Circuit Board</b> |
|                       | Product Type               | <b>Connector</b>             |
|                       | Profile                    | <b>Standard</b>              |
|                       | Boss                       | <b>With</b>                  |
| Series                | <b>Blindmate, Series I</b> |                              |

|                        |                     |           |
|------------------------|---------------------|-----------|
| Configuration Features | Number of Positions | <b>80</b> |
|                        | Number of Rows      | <b>2</b>  |
|                        | Stackable           | <b>No</b> |

|                            |               |           |
|----------------------------|---------------|-----------|
| Electrical Characteristics | Voltage (VAC) | <b>30</b> |
|----------------------------|---------------|-----------|

|               |                                |                        |
|---------------|--------------------------------|------------------------|
| Body Features | Retention Leg Material         | <b>Brass</b>           |
|               | Retention Leg Plating Material | <b>Tin over Nickel</b> |
|               | Color                          | <b>Black</b>           |

|                  |   |                        |
|------------------|---|------------------------|
| Contact Features | Contact Mating Area Plating Material        | <b>Gold</b>            |
|                  | Contact Mating Area Plating Thickness (µin) | <b>30</b>              |
|                  | Contact Type                                | <b>Socket</b>          |
|                  | Solder Tail Contact Plating Material        | <b>Tin over Nickel</b> |
|                  | Contact Base Material                       | <b>Phosphor Bronze</b> |

|                      |                                |                            |
|----------------------|--------------------------------|----------------------------|
| Termination Features | Termination Method to PC Board | <b>Through Hole</b>        |
|                      | Termination Post Length        | <b>3.18 mm [ .125 in ]</b> |

|                       |  |                                      |
|-----------------------|--|--------------------------------------|
| Mechanical Attachment | Mating Alignment Type                          | <b>Polarization</b>                  |
|                       | PCB Mount Retention                            | <b>With</b>                          |
|                       | PCB Mount Retention Type                       | <b>Boardlocks</b>                    |
|                       | PCB Mount Alignment                            | <b>With</b>                          |
|                       | PCB Mount Alignment Type                       | <b>Keying Post</b>                   |
| <hr/>                 |  |                                      |
| Housing Features      | Centerline                                     | <b>1.27 mm [ .05 in ]</b>            |
|                       | Housing Material                               | <b>LCP (Liquid Crystal Polymer)</b>  |
|                       | Housing Color                                  | <b>Black</b>                         |
| <hr/>                 |  |                                      |
| Dimensions            | Height   | <b>11.5 mm [ .45 in ]</b>            |
| <hr/>                 |  |                                      |
| Usage Conditions      | Operating Temperature Range                    | <b>-55 – 105 °C [ -67 – 221 °F ]</b> |
|                       | Housing Material Temperature                   | <b>High</b>                          |
| <hr/>                 |  |                                      |
| Operation/Application | For Use With                                   | <b>Mates with Headers</b>            |
| <hr/>                 |  |                                      |
| Industry Standards    | UL Flammability Rating                         | <b>UL 94V-0</b>                      |
| <hr/>                 |  |                                      |
| Packaging Features    | Packaging Method                               | <b>Tube</b>                          |
|                       | Packaging Quantity                             | <b>50</b>                            |
| <hr/>                 |  |                                      |
| Product Compliance    | <a href="#">Statement of Compliance</a><br>PDF |                                      |
|                       | <a href="#">VIEW ALL PRODUCT COMPLIANCE</a>    |                                      |