



**CONNECTORS**

**BOARD-TO-BOARD HEADERS & RECEPTACLES**



✓ Active

TE CONNECTIVITY (TE)

## .050CL CHAMP VERT RCPT 20 POS

CHAMP | .050 CHAMP Series I

5-5175475-1

TE Internal Number: 5-5175475-1

EU RoHS Compliant

EU ELV Compliant

**Connector Style** Receptacle

**Connector System** Board-to-Board

**Number of Positions** 20

**Centerline (Pitch)** 1.27 mm [ .05 in ]

**Packaging Method** Tray

[↓ PRODUCT DRAWING](#)  
English

[↓ 3D PDF](#)

### DOCUMENTATION

Product Drawings

**AMP CHAMP .050 CONNECTOR (B-T-B) RECEPTACLE CONNECTOR (VERTICAL WITH RETENTION LEG)**

PDF

English

CAD Files

**3D PDF**

PDF

English

**Customer View Model**

2D\_DXF.ZIP

English

## Customer View Model

3D\_IGS.ZIP

English

## Customer View Model

3D\_STP.ZIP

English

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Product Specifications

Product Specification

## CHAMP .050 SERIES I CONNECTOR

PDF

English

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Product Environmental Compliance

TE Material Declaration

## MD\_5-5175475-1\_07062012448

PDF

English

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## FEATURES



Please review product documents or [contact us](#) for the latest agency approval information.

Please Note: Use the Product Drawing for all design activity.

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### Product Type Features

**Connector Style** Receptacle

**Connector System** Board-to-Board

**Connector & Contact Terminates To** Printed Circuit Board

**Sealed Bottom** Without

**Series** High Density (HD), Series I

**PCB Mounting Orientation** Vertical

**Profile** Standard

**Boss** Without

**Product Type** Connector

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### Configuration Features

**Stackable** No

**Number of Positions** 20

**Number of Rows** 1

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### Electrical Characteristics

**Voltage (VAC)** 250

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### Body Features

**Retention Leg Plating Material** Tin over Nickel

**Color** Black

**Retention Leg Material** Brass

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## Contact Features

**Solder Tail Contact Plating Material** Tin  
**Contact Configuration** Single Tine  
**Contact Shape** Square  
**Contact Mating Area Plating Material** Gold  
**Contact Mating Area Plating Thickness** .76  $\mu\text{m}$  [ 30  $\mu\text{in}$  ]  
**Contact Current Rating (Max) (A)** 1  
**Solder Tail Contact Plating Thickness** 1  $\mu\text{m}$  [ 39.4  $\mu\text{in}$  ]  
**Contact Layout** Inline  
**Contact Base Material** Phosphor Bronze  
**Contact Type** Socket

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## Termination Features

**Termination Method to PC Board** Through Hole  
**Termination Post Length** 3.1 mm [ .122 in ]

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## Mechanical Attachment

**PCB Mount Retention** With  
**PCB Mount Retention Type** Boardlocks  
**PCB Mount Alignment** Without

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## Housing Features

**Centerline (Pitch)** 1.27 mm [ .05 in ]  
**Housing Material** Nylon - GF  
**Housing Color** Black

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## Dimensions

**Height** 7 mm [ .275 in ]  
**Tail Length** 3.1 mm [ .123 in ]

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## Usage Conditions

**Operating Temperature Range** -55 – 85  $^{\circ}\text{C}$  [ -67 – 185  $^{\circ}\text{F}$  ]  
**Housing Material Temperature** Standard

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## Operation/Application

**Pick and Place Cover** Without  
**For Use With** Plug Assembly

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## Industry Standards

**UL Flammability Rating** UL 94V-0

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## Packaging Features

**Packaging Method** Tray  
**Packaging Quantity** 200

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## PRODUCT COMPLIANCE



Statement of Compliance

**Statement of Compliance**

PDF

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