

# RotaConnect™ ROTATABLE BOARD-TO-BOARD CONNECTOR

## DESCRIPTION

A unique rotatable board to board SMT connector that can be used to support perpendicular, coplanar and angled connections, in multiple mating/un-mating directions.

The hermaphroditic “mates to itself” design enables mating at any angle between +90° and -60° which enables connector to be placed anywhere on PCB. This is available in 2 and 4 positions.

This design allows the use of a single part number which will comprise both male and female contacts. The high temperature grade housing material is reflow soldering compatible. The tape and reel packaging permits vacuum pick and place application.



## FEATURES & BENEFITS

- Available in 2 and 4 positions
- Connector mates to itself (hermaphroditic)
- Reliable dual beam contact
- Hold down for PCB retention
- Pins are protected by housing
- Floating and Rotation possible
- Supports multiple mating and un-mating directions
- High temperature material for reflow type processes
- RoHs Compliant

## TARGET MARKETS / APPLICATIONS

- Industrial
  - Control Boards
  - Sensors
  - Actuators
  - Rigid LED Strips
  - Automotive lighting
  - Channel Lettering
  - Incandescent lighting strip

## TECHNICAL INFORMATION

### MATERIALS

- Housing: High temperature thermoplastic UL-94-V0
- Contact: Copper Alloy
- Plating: GXT™ or Tin over nickel

### ELECTRICAL PERFORMANCE

- Current rating: up to 5A
- Operating Voltage: 125V

### PACKAGING

- Tape and Reel

### ENVIRONMENTAL

- Operating Temp: -40°C to +125°C

### MECHANICAL PERFORMANCE

- Durability: ≤20 mating cycles
- Mating Angle: between +90° and -60°

### SPECIFICATIONS

- Test specifications will be as per EIA 364 and IEC test methods

### APPROVALS AND CERTIFICATIONS

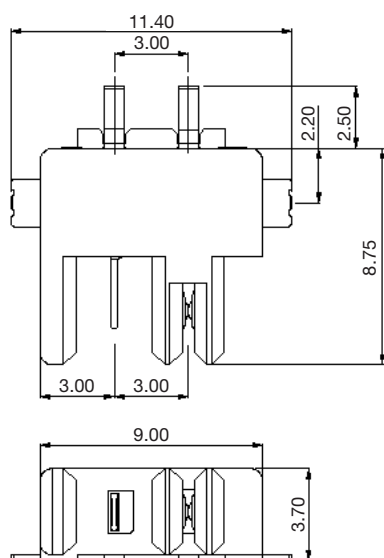
- UL (in progress)

### PART NUMBERS

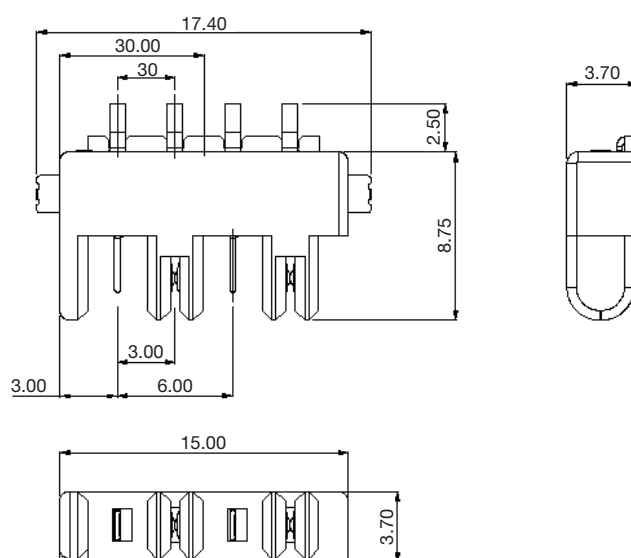
Part References	Description	No. of Contacts	Contact Type	Termination
10120045-200LF	2 position hermaphroditic rotatable board-to-board connector	2	1 male, 1 female	SMT
10120045-400LF	4 position hermaphroditic rotatable board-to-board connector	4	2 male, 2 female	SMT

Please note that the above information is subject to change without notice.

#### 10120045-200LF



#### 10120045-400LF



Note: It is recommended to review drawings/specifications or samples before placing orders to ensure proper fit for application. For complete product drawings, please visit [www.fci.com](http://www.fci.com)