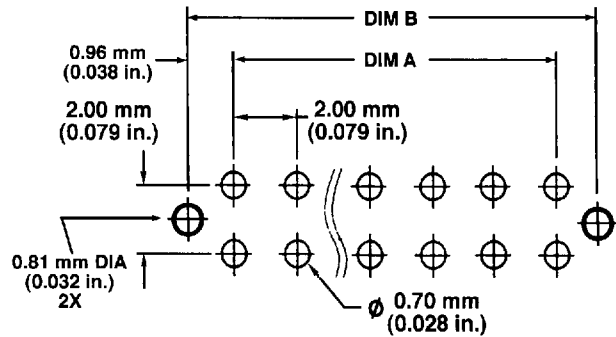
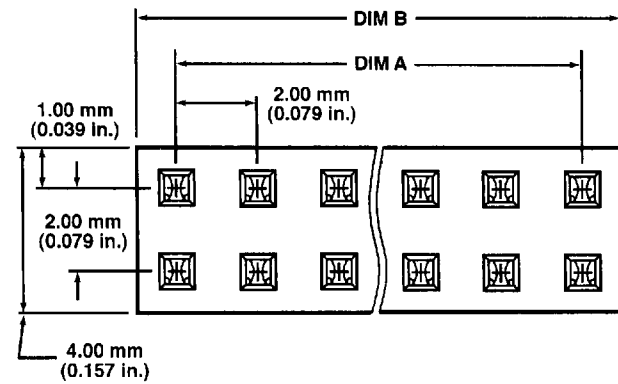
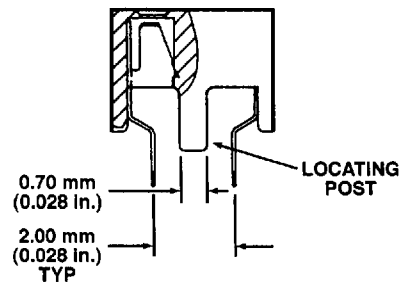
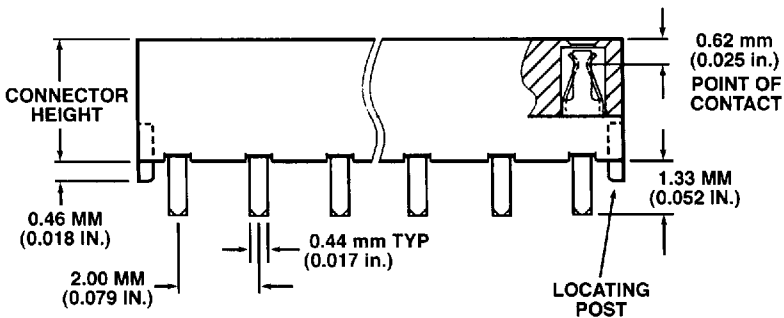


### Description Vertical, Top-Entry, Through-Mount Receptacle



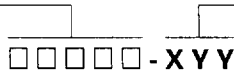
RECOMMENDED HOLE PATTERN



NOTE: PRODUCT IS SHOWN WITH OPTIONAL LOCATING POSTS.

### Ordering Data Vertical, Top-Entry, Through-Mount Receptacle

Base number specifies housing configuration, solder tail length, and connector height.



Dash number specifies contact finish (X) and number of positions (YY).

| Base Number | Connector Height |       | Locating Posts |
|-------------|------------------|-------|----------------|
|             | mm               | in.   |                |
| 91803       | 3.00             | 0.118 | no             |
| 92912       | 3.00             | 0.118 | yes            |
| 91813       | 4.00             | 0.157 | no             |
| 92091       | 4.00             | 0.157 | yes            |

**X: Contact Finish**

1 = 0.76 μm (30 μin.) gold

3 = 0.38 μm (15 μin.) gold

| No. of Positions | Dash Number | Dimension A |       | Dimension B |       |
|------------------|-------------|-------------|-------|-------------|-------|
|                  |             | mm          | in.   | mm          | in.   |
| 2 x 5            | X10         | 8.00        | 0.315 | 9.92        | 0.391 |
| 2 x 6            | X12         | 10.00       | 0.394 | 11.92       | 0.469 |
| 2 x 7            | X14         | 12.00       | 0.472 | 13.92       | 0.548 |
| 2 x 8            | X16         | 14.00       | 0.551 | 15.92       | 0.627 |
| 2 x 9            | X18         | 16.00       | 0.630 | 17.92       | 0.706 |
| 2 x 10           | X20         | 18.00       | 0.709 | 19.92       | 0.784 |
| 2 x 11           | X22         | 20.00       | 0.787 | 21.92       | 0.863 |
| 2 x 12           | X24         | 22.00       | 0.866 | 23.92       | 0.942 |
| 2 x 13           | X26         | 24.00       | 0.945 | 25.92       | 1.020 |
| 2 x 14           | X28         | 26.00       | 1.024 | 27.92       | 1.099 |
| 2 x 15           | X30         | 28.00       | 1.102 | 29.92       | 1.178 |

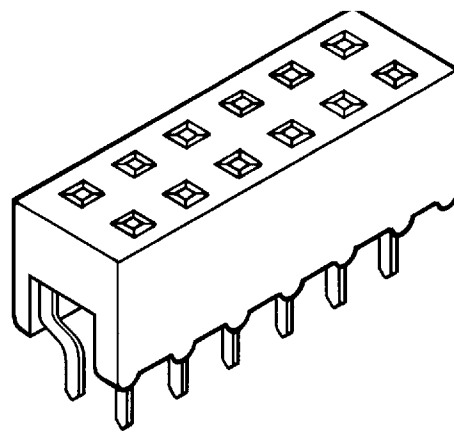
Ordering data shown is for our standard product offering. For non-standard or custom products, contact your authorized Berg Electronics representative.



# PCB Mounted Receptacles

2.00 x 2.00 mm (0.079 x 0.079 in.)  
Centerlines

**Minitek™ Vertical Receptacles**  
**Top-Entry, Through-Mount 3.00 mm**  
**(0.118 in.) and 4.00 mm (0.157 in.)**  
**Body Heights**



## Features

- 2 x 2 through 2 x 15 positions.
- Early-entry dual-beam contacts provide long wiping action for reliable electrical contact
- Closed front and beveled lead-in ramps at receptacle openings protect against contact damage
- Housing stands just 3.00 mm (0.118 in.) or 4.00 mm (0.157 in.) tall permitting close board-to-board spacing.
- Duplex-plated contact with gold finish in contact areas and tin-lead in solder areas
- Can be stacked end-to-end on 2.00 mm (0.079 in.) pitch
- High temperature plastic withstands reflow soldering temperatures.
- Packaged in tubes for protection

## Options

- Polarization through molded-in position.
- Locating posts.

## Mating Data

Mates with 0.50 mm (0.020 in.) square pin 2.00 mm (0.079 in.) long.


### Berg Electronics Products Page


- Minitek™ unshrouded headers . . . . . 9-8 to 9-21
- Minitek™ straddle-mount headers . . . . . 9-22
- Minitek™ pins (in pre-loaded pin carrier) . . . . . 9-18

## Specifications

- JIS-5020
- MIL-STD-202

## Approvals and Certifications

 File no. E66906

 File no. LR46923

## Technical Data

### Materials

- High-temperature housing . . . . . Glass-filled PCT (UL 94 V-0)
  - ▶ Color . . . . . Black
  - ▶ Applicable soldering processes . . . . . IR, vapor-phase
- Receptacle . . . . . Beryllium copper

### Mechanical Performance

- Insertion force . . . . . 1.95 N (200 gf) max per contact
- Withdrawal force . . . . . 0.20 N (20 gf) min per contact
- Terminal retention force . . . . . 2.20 N (227 gf) min
- Durability (mating cycles) . . . . . 25

### Electrical Performance

- Insulation resistance . . . . . 1000 MΩ min
- Withstanding voltage . . . . . 500 V rms
- Current rating . . . . . 1 amp continuous
- Contact resistance . . . . . 20 mΩ max

### Plating

- Underplate . . . . . 1.27 μm (50 μin.) min nickel
- Finish
  - ▶ Contact area . . . . . 0.38 μm (15 μin.) min gold or 0.76 μm (30 μin.) min gold
  - ▶ Solder area . . . . . 2.54 μm (100 μin.) min tin-lead

### Operating Environment

- Temperature range . . . . . -55°C to +105°C

### Packaging

- Tubes

## Customer Support Materials

| Description                         | Order No.   | Description                      | Order No.  |
|-------------------------------------|-------------|----------------------------------|------------|
| Customer Product Drawings . . . . . | By Part No. | Product Bulletin . . . . .       | 950522-001 |
| Product Samples . . . . .           | By Part No. | Product Specifications . . . . . | GES-12-008 |

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