

## Introduction to the MICTOR SB Interconnection System (0.50 [.020] and 0.80 [.032] Centerline)

### Product Facts

- 0.50 [.020] centerline product: 105 dedicated signal lines per inch within one module (60 contacts per module; modules on 20.0 [.788] centerlines)
- 0.80 [.032] centerline product: 66.8 dedicated signal lines per inch within one module (40 contacts per module; modules on 20.0 [.788] centerlines)
- Surface mount family designed for parallel board-to-board, flex-to-board and cable-to-board configurations
- Infrared and forced air convection compatible housing materials
- Designed for 50 ohm systems or 100 ohm systems
- Connector housings polarized for correct mating
- Packaging styles available in trays and pocket tape, with both styles available with or without vacuum dots
- Recognized under the Component Program of Underwriter Laboratories Inc.  File No. E111594



The MICTOR SB connector family is based on the Micro-Strip concept of two rows of signal contacts divided by a center power ground plane.

Various mated heights are available for parallel board-to-board systems. The MICTOR SB connector family is available in 0.50 [.020] and 0.80 [.032] centerlines. They are available in sizes

ranging from 60 to 300 signal positions (in 60 position increments) for the 0.50 [.020] centerline products and from 40 to 200 signal positions (in 40 position increments) for the 0.80 [.032] centerline products. There is a discrete ground bus every 20.0 [.788] of the connector length, which can be assigned to either power or ground in any combination.

The housing material is a liquid crystal polymer, compatible with infrared and forced air convection operations.

The connector system maintains impedance and uses the solid ground bus between the rows of signals to provide low crosstalk and excellent high-speed signal characteristics.

## Material and Performance Specifications, MICTOR SB Connectors

### Material Specifications

#### Material

**Housing** — Liquid crystal polymer, black

**Contacts** — Phosphor bronze

**Ground Bus** — Phosphor bronze

#### Finish (Gold Flash Plating)

**Contacts and Ground Bus** — Gold flash over 0.00127 [.000050] min. nickel underplate

#### Finish (10 $\mu$ Gold Plating)

**Contacts and Ground Bus** — 0.00025 [.000010] min. gold over 0.00178 [.000070] min. nickel underplate

### Performance Specifications

#### Ratings

**Voltage** — 225 vac

**Current** — Signal; rated 2.0 Amps @ 80°C, derated 1 Amp\*  
Ground; rated 9.5 Amps @ 80°C, fully derated 6.8 Amps\*

**Temperature** — -65°C to +125°C

\*Consult Tyco Electronics for details on current rating.

#### Electrical Characteristics

**Characteristic Impedance** — 50 $\pm$ 5 ohms at 1 ns

**Termination Resistance** —  $\Delta R$  15 milliohms max. for signal contacts,  $\Delta R$  5 milliohms max. for ground bus contacts; EIA 364-23A

**Insulation Resistance** — 5,000 megohms min. initial, 1,000 megohms after exposures; EIA 364-21C

**Dielectric Withstanding Voltage** — 375 vac for 0.50 [.032] centerline connectors and 675 vac for 0.80 [.020] centerline connectors at sea level; EIA 364-208, Condition 1

#### Mechanical Characteristics

**Solderability** — Solderable area shall have a 95% min. solder coverage; EIA 364-52

**Vibration (Random)** — No discontinuities of 1  $\mu$ s or longer duration; EIA 364-28D, Condition V

**Physical Shock** — No discontinuities of 1  $\mu$ s or longer duration; EIA 364-27B, Method A

**Durability (Tested to)** — Mate and unmate samples at a rate of 500 cycles max. per hour. 100 cycles for 10  $\mu$  inch gold plated parts; EIA 364-9C

**Mating Force** — 120 oz max. per 1 module for 0.50 [.020] centerline connectors (Each module equals 60 signal contacts and 1 ground bus). 80 oz max. per 1 module for 0.80 [.032] centerline connectors (Each module equals 40 signal contacts and 1 ground bus)

**Unmating Force** — 24 oz max. per 1 module for 0.50 [.020] centerline connectors (Each module equals 60 signal contacts and 1 ground bus). 20 oz max. per 1 module for 0.80 [.032] centerline connectors (Each module equals 40 signal contacts and 1 ground bus)

#### Environmental Characteristics

**Thermal Shock** — Subject mated samples to 5 cycles between -65°C and +125°C; EIA 364-32C

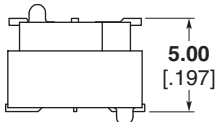
**Humidity - Temperature Cycling** — Subject mated samples to 10 cycles between -25°C and +65°C at 95% RH; EIA 364-31B, Method III

**Temperature Life** — Subject mated samples to temperature life at +105°C for 300 hours; EIA 364-17

## MICTOR SB Connectors Stack Height Combinations

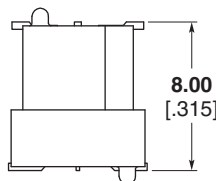
**Gold Flash and 10  $\mu$  Gold  
Plated Vertical Connectors**  
0.80 [.032] and 0.50 [.020]  
Centerline Connectors

**5.00 [.197] Plug**  
0.80 [.032] CL (Page 47)  
0.50 [.020] CL (Page 57)



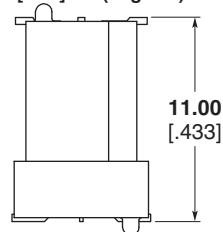
**Receptacle**  
0.80 [.032] CL (Page 46)  
0.50 [.020] CL (Page 56)

**8.00 [.315] Plug**  
0.80 [.032] CL (Page 48)  
0.50 [.020] CL (Page 58)



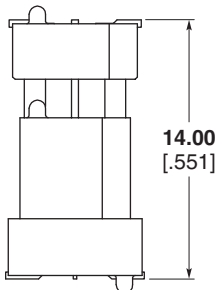
**Receptacle**  
0.80 [.032] CL (Page 46)  
0.50 [.020] CL (Page 56)

**11.00 [.433] Plug**  
0.80 [.032] CL (Page 49)  
0.50 [.020] CL (Page 59)



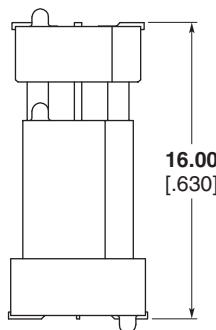
**Receptacle**  
0.80 [.032] CL (Page 46)  
0.50 [.020] CL (Page 56)

**14.00 [.551] Plug**  
0.80 [.032] CL (Page 50)  
0.50 [.020] CL (Page 60)



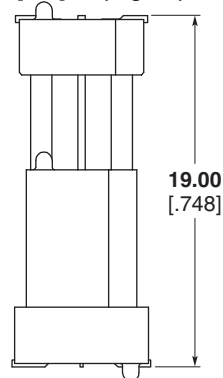
**Receptacle**  
0.80 [.032] CL (Page 46)  
0.50 [.020] CL (Page 56)

**16.00 [.630] Plug**  
0.80 [.032] CL (Page 51)  
0.50 [.020] CL (Page 61)



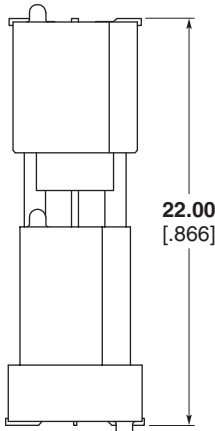
**Receptacle**  
0.80 [.032] CL (Page 46)  
0.50 [.020] CL (Page 56)

**19.00 [.748] Plug**  
0.80 [.032] CL (Page 52)  
0.50 [.020] CL (Page 62)



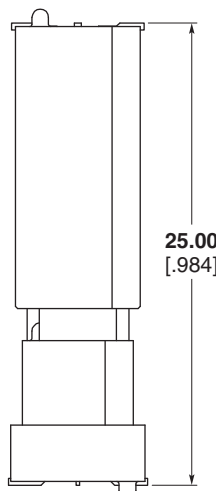
**Receptacle**  
0.80 [.032] CL (Page 46)  
0.50 [.020] CL (Page 56)

**22.00 [.866] Plug**  
0.80 [.032] CL (Page 53)  
0.50 [.020] CL (Page 63)



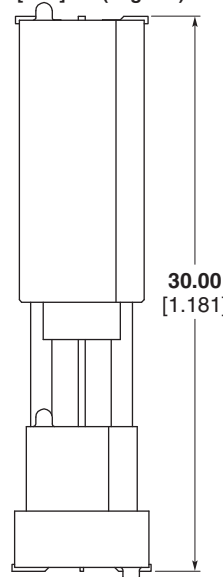
**Receptacle**  
0.80 [.032] CL (Page 46)  
0.50 [.020] CL (Page 56)

**25.00 [.984] Plug**  
0.80 [.032] CL (Page 54)  
0.50 [.020] CL (Page 64)



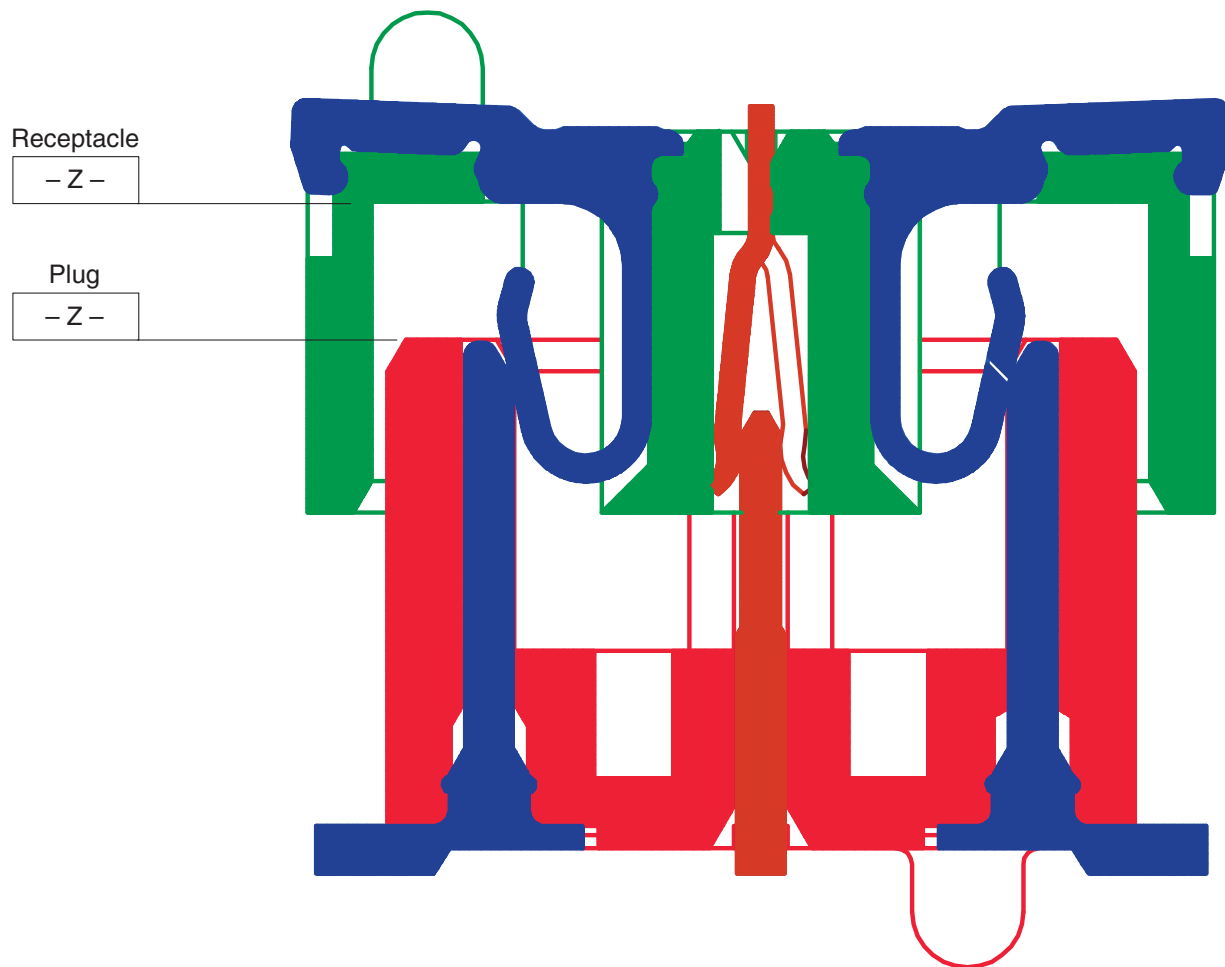
**Receptacle**  
0.80 [.032] CL (Page 46)  
0.50 [.020] CL (Page 56)

**30.00 [1.181] Plug**  
0.80 [.032] CL (Page 55)  
0.50 [.020] CL (Page 65)



**Receptacle**  
0.80 [.032] CL (Page 46)  
0.50 [.020] CL (Page 56)

## MICTOR SB Connector Cross Section



MICTOR SB  
Interconnection System

Connectors are shown at point where signal contact first touch each other.

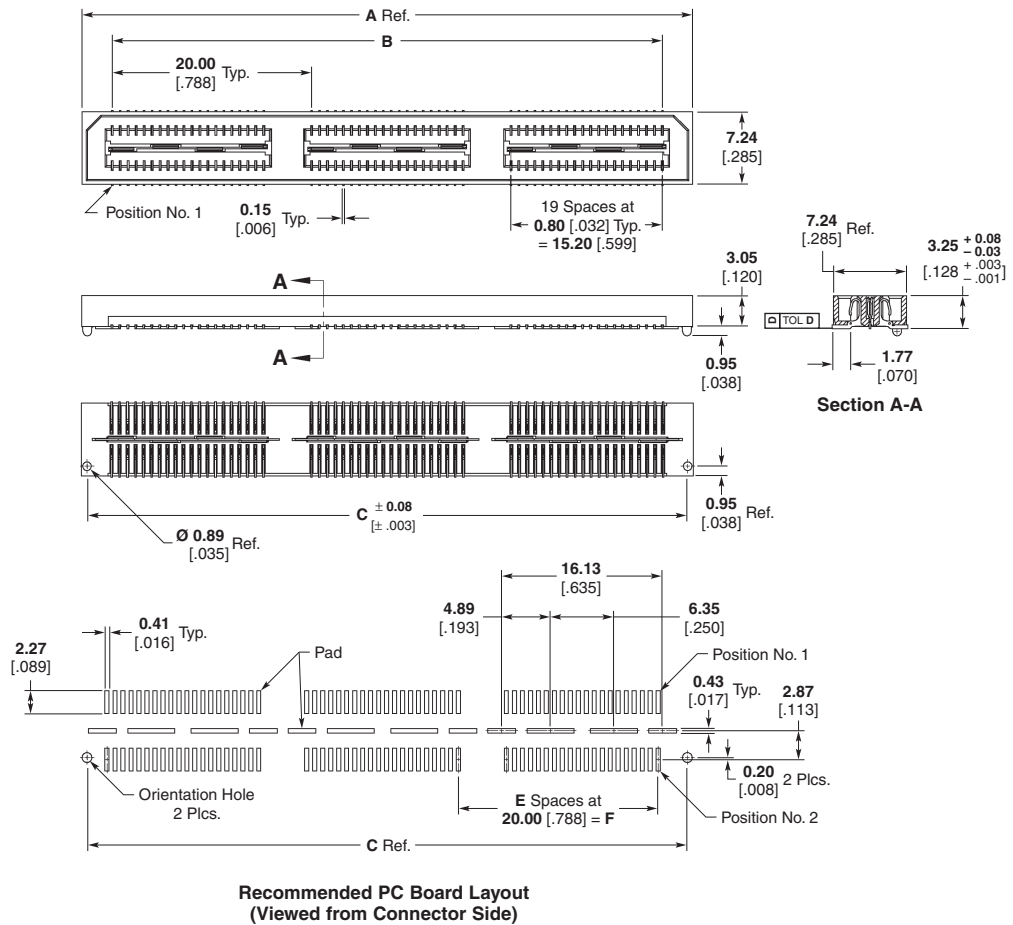
Connectors are designed to be fully mated when the two "Z" datums meet.

Green = Receptacle housing  
Red = Plug housing  
Blue = Signal contacts  
Brown = Ground bus contacts

## MICTOR SB Interconnection System

### 0.80 [.032] Centerline Receptacles

**Note:** Parts are available with vacuum dots for robotic placement.



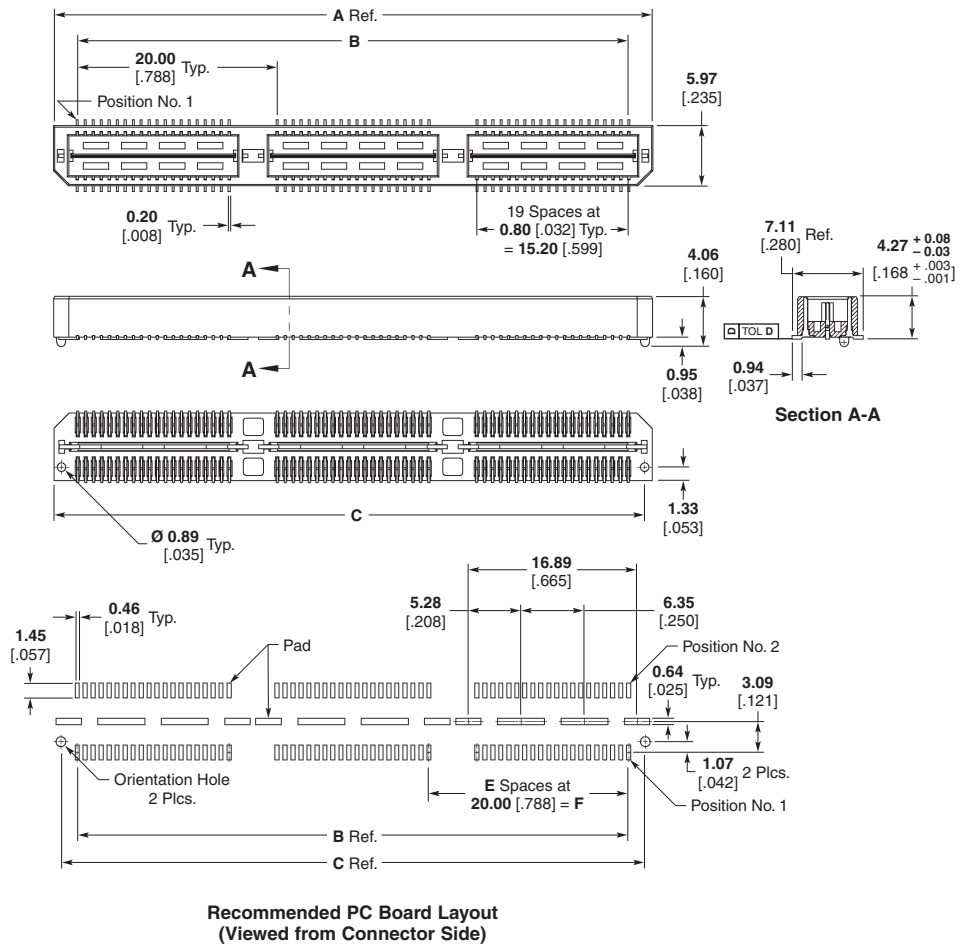
| Packaging Type | No. of Positions | Dimensions      |                |                 |              |   |                | Gold Flash Plating |             | 10 µ Gold Plating |             | 30 µ Gold Plating |             |
|----------------|------------------|-----------------|----------------|-----------------|--------------|---|----------------|--------------------|-------------|-------------------|-------------|-------------------|-------------|
|                |                  | A               | B              | C               | D            | E | F              | Vacuum Dots        |             | Vacuum Dots       |             | Vacuum Dots       |             |
|                |                  |                 |                |                 |              |   |                | Without            | With        | Without           | With        | Without           | With        |
| Tray           | 40               | 21.29<br>.838   | 15.20<br>.599  | 20.13<br>.793   | 0.10<br>.004 | 0 | 0.00<br>.000   | 1658043-1          | 2-1658043-1 | 1658012-1         | 2-1658012-1 | 1658462-1         | 2-1658462-1 |
|                | 80               | 41.28<br>1.625  | 35.20<br>1.386 | 40.13<br>1.580  | 0.10<br>.004 | 1 | 20.00<br>.788  | 1658043-2          | 2-1658043-2 | 1658012-2         | 2-1658012-2 | 1658462-2         | 2-1658462-2 |
|                | 120              | 61.28<br>2.412  | 55.21<br>2.174 | 60.13<br>2.368  | 0.15<br>.006 | 2 | 40.00<br>1.575 | 1658043-3          | 2-1658043-3 | 1658012-3         | 2-1658012-3 | 1658462-3         | 2-1658462-3 |
|                | 160              | 81.28<br>3.200  | 75.21<br>2.961 | 80.14<br>3.155  | 0.15<br>.006 | 3 | 60.01<br>2.362 | 1658043-4          | 2-1658043-4 | 1658012-4         | 2-1658012-4 | 1658462-4         | 2-1658462-4 |
|                | 200              | 101.30<br>3.988 | 95.21<br>3.749 | 100.14<br>3.943 | 0.15<br>.006 | 4 | 80.01<br>3.150 | 1658043-5          | 2-1658043-5 | 1658012-5         | 2-1658012-5 | 1658462-5         | 2-1658462-5 |
| Tape & Reel    | 40               | 21.29<br>.838   | 15.20<br>.599  | 20.13<br>.793   | 0.10<br>.004 | 0 | 0.00<br>.000   | 4-1658043-1        | 6-1658043-1 | 4-1658012-1       | 6-1658012-1 | 4-1658462-1       | 6-1658462-1 |
|                | 80               | 41.28<br>1.625  | 35.20<br>1.386 | 40.13<br>1.580  | 0.10<br>.004 | 1 | 20.00<br>.788  | 4-1658043-2        | 6-1658043-2 | 4-1658012-2       | 6-1658012-2 | 4-1658462-2       | 6-1658462-2 |
|                | 120              | 61.28<br>2.412  | 55.21<br>2.174 | 60.13<br>2.368  | 0.15<br>.006 | 2 | 40.00<br>1.575 | 4-1658043-3        | 6-1658043-3 | 4-1658012-3       | 6-1658012-3 | 4-1658462-3       | 6-1658462-3 |

**Note:** All part numbers are RoHS compliant.

## MICTOR SB Interconnection System (Continued)

**0.80 [.032] Centerline**  
**5.00 [.197] Stack Height**  
**Plugs**

**Note:** Parts are available with vacuum dots for robotic placement.



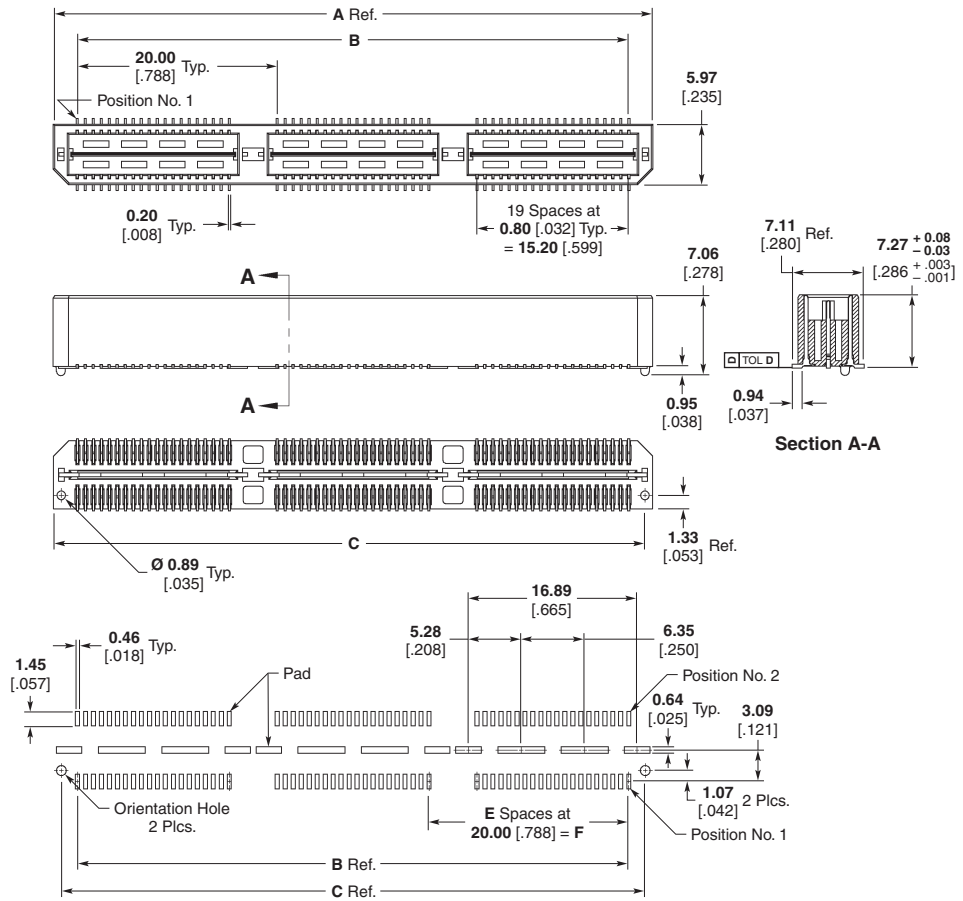
| Packaging Type | No. of Positions | Dimensions      |                |                |              |   |                | Gold Flash Plating |             | 10 µ Gold Plating |             | 30 µ Gold Plating |             |
|----------------|------------------|-----------------|----------------|----------------|--------------|---|----------------|--------------------|-------------|-------------------|-------------|-------------------|-------------|
|                |                  | A               | B              | C              | D            | E | F              | Vacuum Dots        |             | Vacuum Dots       |             | Vacuum Dots       |             |
|                |                  |                 |                |                |              |   |                | Without            | With        | Without           | With        | Without           | With        |
| Tray           | 40               | 20.02<br>.788   | 15.21<br>.599  | 18.49<br>.728  | 0.10<br>.004 | 0 | 0.00<br>.000   | 1658044-1          | 2-1658044-1 | 1658013-1         | 2-1658013-1 | 1658463-1         | 2-1658463-1 |
|                | 80               | 40.01<br>1.575  | 35.20<br>1.386 | 38.48<br>1.515 | 0.10<br>.004 | 1 | 20.00<br>.788  | 1658044-2          | 2-1658044-2 | 1658013-2         | 2-1658013-2 | 1658463-2         | 2-1658463-2 |
|                | 120              | 60.02<br>2.363  | 55.22<br>2.174 | 58.50<br>2.303 | 0.10<br>.004 | 2 | 40.00<br>1.575 | 1658044-3          | 2-1658044-3 | 1658013-3         | 2-1658013-3 | 1658463-3         | 2-1658463-3 |
|                | 160              | 80.01<br>3.150  | 75.21<br>2.961 | 78.49<br>3.090 | 0.15<br>.006 | 3 | 60.01<br>2.362 | 1658044-4          | 2-1658044-4 | 1658013-4         | 2-1658013-4 | 1658463-4         | 2-1658463-4 |
|                | 200              | 100.03<br>3.938 | 95.22<br>3.749 | 98.50<br>3.878 | 0.15<br>.006 | 4 | 80.01<br>3.150 | 1658044-5          | 2-1658044-5 | 1658013-5         | 2-1658013-5 | 1658463-5         | 2-1658463-5 |
| Tape & Reel    | 40               | 20.02<br>.788   | 15.21<br>.599  | 18.49<br>.728  | 0.10<br>.004 | 0 | 0.00<br>.000   | 4-1658044-1        | 6-1658044-1 | 4-1658013-1       | 6-1658013-1 | 4-1658463-1       | 6-1658463-1 |
|                | 80               | 40.01<br>1.575  | 35.20<br>1.386 | 38.48<br>1.515 | 0.10<br>.004 | 1 | 20.00<br>.788  | 4-1658044-2        | 6-1658044-2 | 4-1658013-2       | 6-1658013-2 | 4-1658463-2       | 6-1658463-2 |
|                | 120              | 60.02<br>2.363  | 55.22<br>2.174 | 58.50<br>2.303 | 0.10<br>.004 | 2 | 40.00<br>1.575 | 4-1658044-3        | 6-1658044-3 | 4-1658013-3       | 6-1658013-3 | 4-1658463-3       | 6-1658463-3 |

**Note:** All part numbers are RoHS compliant.

## MICTOR SB Interconnection System (Continued)

**0.80 [.032] Centerline**  
**8.00 [.315] Stack Height**  
**Plugs**

**Note:** Parts are available with vacuum dots for robotic placement.



**Recommended PC Board Layout**  
(Viewed from Connector Side)

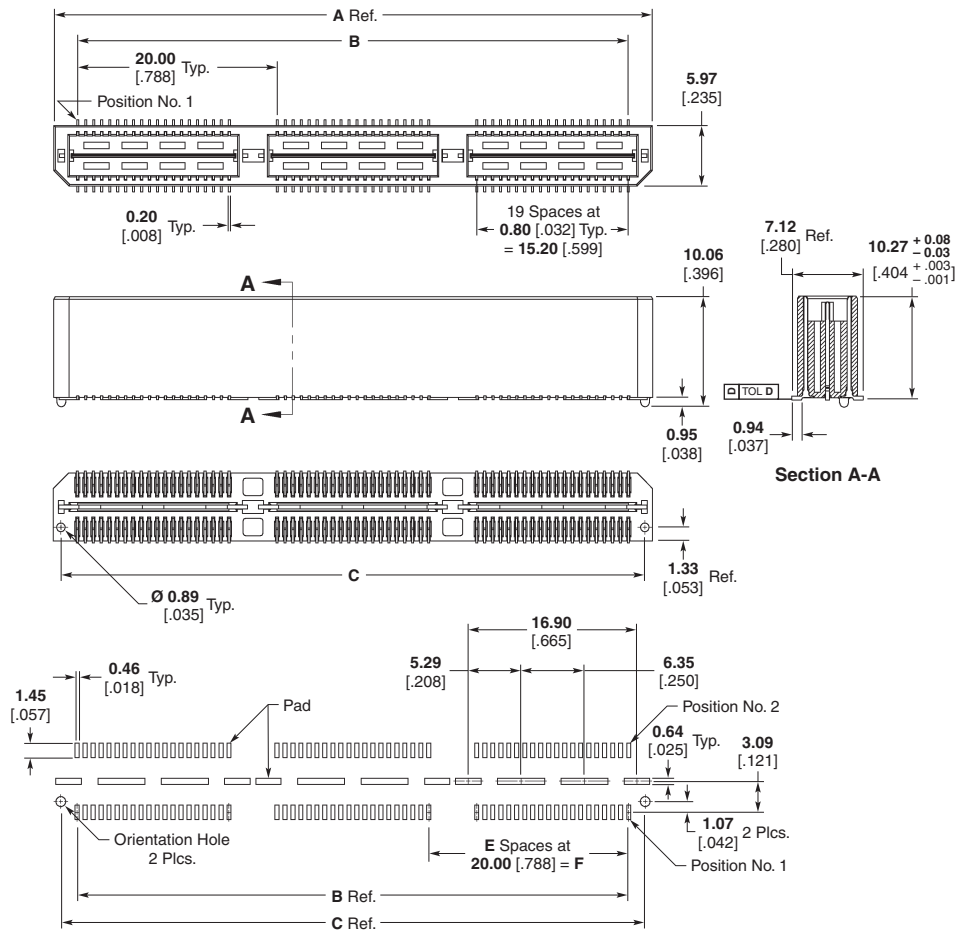
| Packaging Type | No. of Positions | Dimensions      |                |                |              |   |                | Gold Flash Plating |             | 10 µ Gold Plating |             | 30 µ Gold Plating |             |
|----------------|------------------|-----------------|----------------|----------------|--------------|---|----------------|--------------------|-------------|-------------------|-------------|-------------------|-------------|
|                |                  | A               | B              | C              | D            | E | F              | Vacuum Dots        |             | Vacuum Dots       |             | Vacuum Dots       |             |
|                |                  |                 |                |                |              |   |                | Without            | With        | Without           | With        | Without           | With        |
| Tray           | 40               | 20.02<br>.788   | 15.21<br>.599  | 18.49<br>.728  | 0.10<br>.004 | 0 | 0.00<br>.000   | 1658045-1          | 2-1658045-1 | 1658014-1         | 2-1658014-1 | 1658464-1         | 2-1658464-1 |
|                | 80               | 40.01<br>1.575  | 35.20<br>1.386 | 38.48<br>1.515 | 0.10<br>.004 | 1 | 20.00<br>.788  | 1658045-2          | 2-1658045-2 | 1658014-2         | 2-1658014-2 | 1658464-2         | 2-1658464-2 |
|                | 120              | 60.02<br>2.363  | 55.22<br>2.174 | 58.50<br>2.303 | 0.10<br>.004 | 2 | 40.00<br>1.575 | 1658045-3          | 2-1658045-3 | 1658014-3         | 2-1658014-3 | 1658464-3         | 2-1658464-3 |
|                | 160              | 80.01<br>3.015  | 75.21<br>2.961 | 78.49<br>3.090 | 0.15<br>.006 | 3 | 60.01<br>2.362 | 1658045-4          | 2-1658045-4 | 1658014-4         | 2-1658014-4 | 1658464-4         | 2-1658464-4 |
|                | 200              | 100.03<br>3.938 | 95.22<br>3.749 | 98.50<br>3.878 | 0.15<br>.006 | 4 | 80.01<br>3.150 | 1658045-5          | 2-1658045-5 | 1658014-5         | 2-1658014-5 | 1658464-5         | 2-1658464-5 |
| Tape & Reel    | 40               | 20.02<br>.788   | 15.21<br>.599  | 18.49<br>.728  | 0.10<br>.004 | 0 | 0.00<br>.000   | 4-1658045-1        | 6-1658045-1 | 4-1658014-1       | 6-1658014-1 | 4-1658464-1       | 6-1658464-1 |
|                | 80               | 40.01<br>1.575  | 35.20<br>1.386 | 38.48<br>1.515 | 0.10<br>.004 | 1 | 20.00<br>.788  | 4-1658045-2        | 6-1658045-2 | 4-1658014-2       | 6-1658014-2 | 4-1658464-2       | 6-1658464-2 |
|                | 120              | 60.02<br>2.363  | 55.22<br>2.174 | 58.50<br>2.303 | 0.10<br>.004 | 2 | 40.00<br>1.575 | 4-1658045-3        | 6-1658045-3 | 4-1658014-3       | 6-1658014-3 | 4-1658464-3       | 6-1658464-3 |

**Note:** All part numbers are RoHS compliant.

## MICTOR SB Interconnection System (Continued)

**0.80 [.032] Centerline**  
**11.00 [.433] Stack Height**  
**Plugs**

**Note:** Parts are available with vacuum dots for robotic placement.



**Recommended PC Board Layout  
(Viewed from Connector Side)**

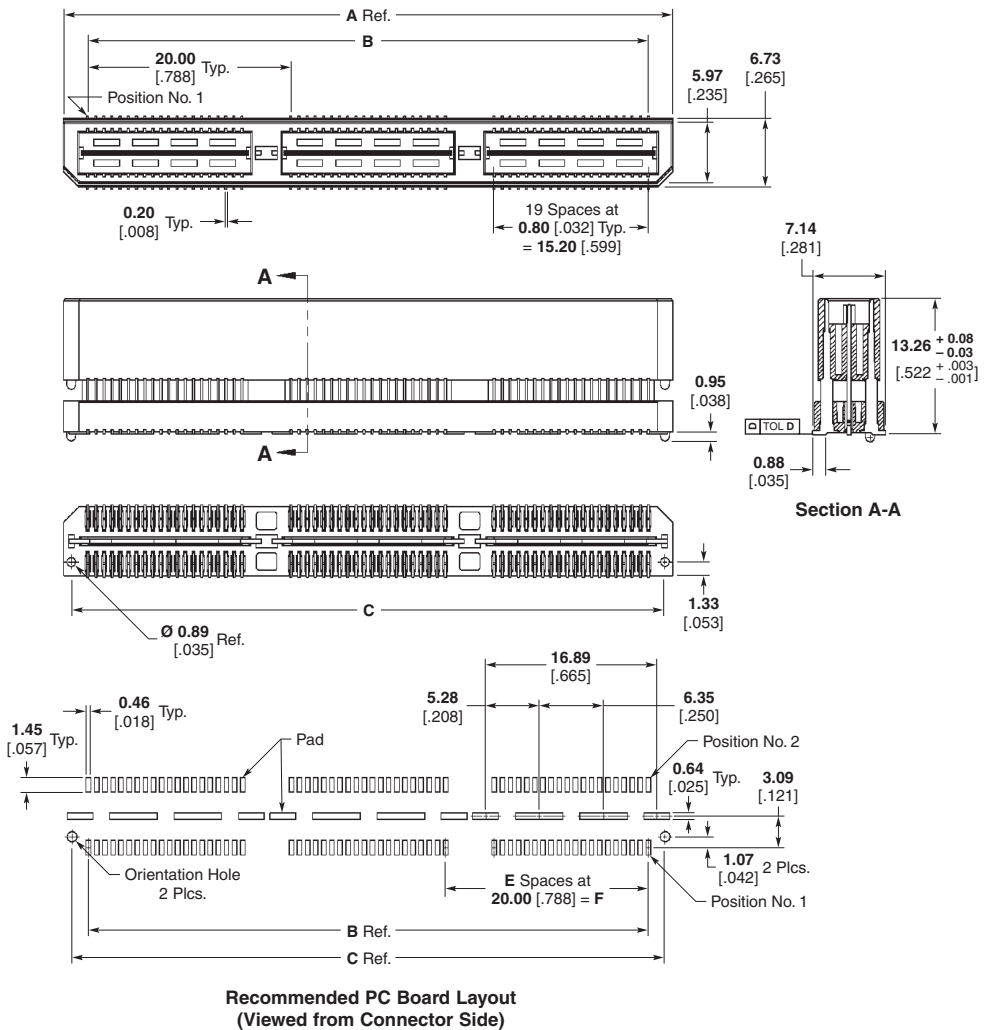
| Packaging Type | No. of Positions | Dimensions      |                |                |              |   |                | Gold Flash Plating |             | 10 µ Gold Plating |             | 30 µ Gold Plating |             |
|----------------|------------------|-----------------|----------------|----------------|--------------|---|----------------|--------------------|-------------|-------------------|-------------|-------------------|-------------|
|                |                  | A               | B              | C              | D            | E | F              | Vacuum Dots        |             | Vacuum Dots       |             | Vacuum Dots       |             |
|                |                  |                 |                |                |              |   |                | Without            | With        | Without           | With        | Without           | With        |
| Tray           | 40               | 20.02<br>.788   | 15.21<br>.599  | 18.49<br>.728  | 0.10<br>.004 | 0 | 0.00<br>.000   | 1658046-1          | 2-1658046-1 | 1658015-1         | 2-1658015-1 | 1658465-1         | 2-1658465-1 |
|                | 80               | 40.01<br>1.575  | 35.20<br>1.386 | 38.48<br>1.515 | 0.10<br>.004 | 1 | 20.00<br>.788  | 1658046-2          | 2-1658046-2 | 1658015-2         | 2-1658015-2 | 1658465-2         | 2-1658465-2 |
|                | 120              | 60.02<br>2.363  | 55.22<br>2.174 | 58.50<br>2.303 | 0.10<br>.004 | 2 | 40.00<br>1.575 | 1658046-3          | 2-1658046-3 | 1658015-3         | 2-1658015-3 | 1658465-3         | 2-1658465-3 |
|                | 160              | 80.01<br>3.015  | 75.21<br>2.961 | 78.49<br>3.090 | 0.15<br>.006 | 3 | 60.01<br>2.362 | 1658046-4          | 2-1658046-4 | 1658015-4         | 2-1658015-4 | 1658465-4         | 2-1658465-4 |
|                | 200              | 100.03<br>3.938 | 95.22<br>3.749 | 98.50<br>3.878 | 0.15<br>.006 | 4 | 80.01<br>3.150 | 1658046-5          | 2-1658046-5 | 1658015-5         | 2-1658015-5 | 1658465-5         | 2-1658465-5 |
| Tape & Reel    | 40               | 20.02<br>.788   | 15.21<br>.599  | 18.49<br>.728  | 0.10<br>.004 | 0 | 0.00<br>.000   | 4-1658046-1        | 6-1658046-1 | 4-1658015-1       | 6-1658015-1 | 4-1658465-1       | 6-1658465-1 |
|                | 80               | 40.01<br>1.575  | 35.20<br>1.386 | 38.48<br>1.515 | 0.10<br>.004 | 1 | 20.00<br>.788  | 4-1658046-2        | 6-1658046-2 | 4-1658015-2       | 6-1658015-2 | 4-1658465-2       | 6-1658465-2 |
|                | 120              | 60.02<br>2.363  | 55.22<br>2.174 | 58.50<br>2.303 | 0.10<br>.004 | 2 | 40.00<br>1.575 | 4-1658046-3        | 6-1658046-3 | 4-1658015-3       | 6-1658015-3 | 4-1658465-3       | 6-1658465-3 |

**Note:** All part numbers are RoHS compliant.

## MICTOR SB Interconnection System (Continued)

**0.80 [.032] Centerline**  
**14.00 [.551] Stack Height**  
**Plugs**

**Note:** Parts are available with vacuum dots for robotic placement.



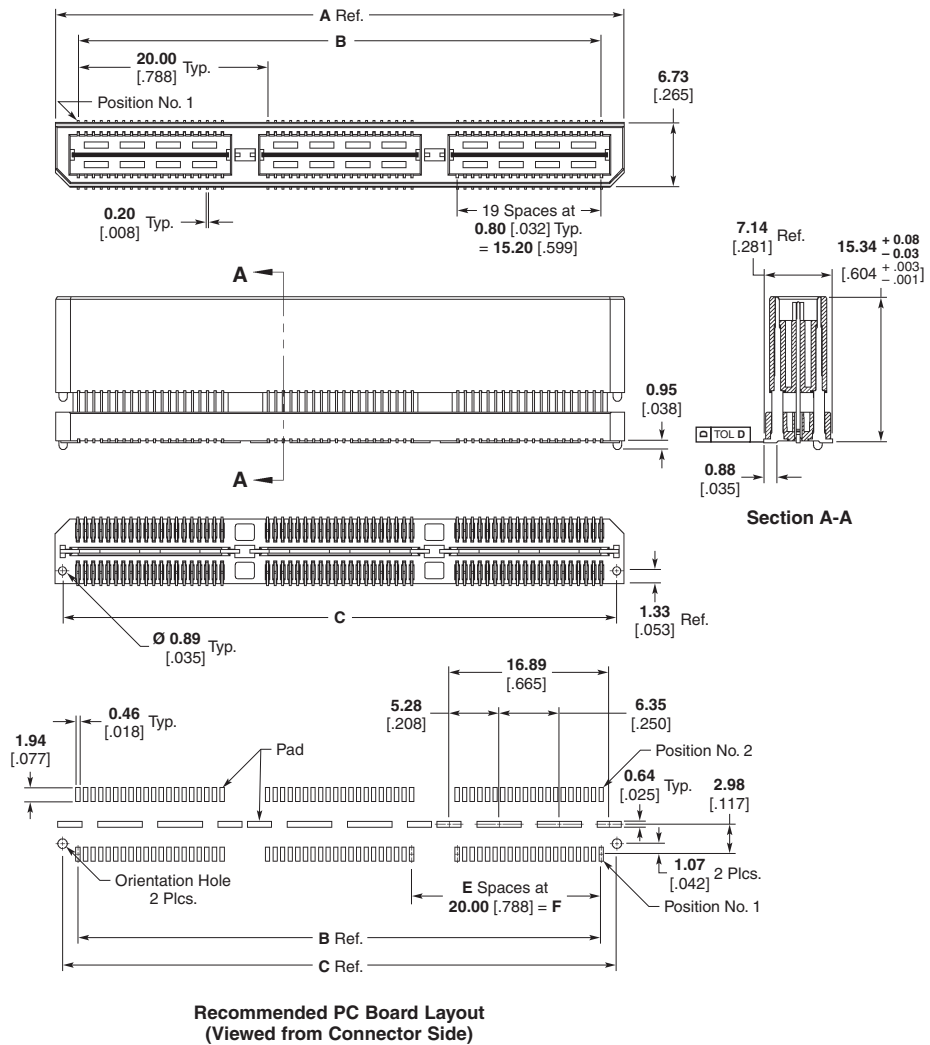
| Packaging Type | No. of Positions | Dimensions      |                |                |              |   |                | Gold Flash Plating |             | 10 µ Gold Plating |             | 30 µ Gold Plating |             |
|----------------|------------------|-----------------|----------------|----------------|--------------|---|----------------|--------------------|-------------|-------------------|-------------|-------------------|-------------|
|                |                  | A               | B              | C              | D            | E | F              | Vacuum Dots        |             | Vacuum Dots       |             | Vacuum Dots       |             |
|                |                  |                 |                |                |              |   |                | Without            | With        | Without           | With        | Without           | With        |
| Tray           | 40               | 20.02<br>.788   | 15.21<br>.599  | 18.49<br>.728  | 0.10<br>.004 | 0 | 0.00<br>.000   | 1658437-1          | 2-1658437-1 | 1658438-1         | 2-1658438-1 | 1658439-1         | 2-1658439-1 |
|                | 80               | 40.01<br>1.575  | 35.20<br>1.386 | 38.48<br>1.515 | 0.10<br>.004 | 1 | 20.00<br>.788  | 1658437-2          | 2-1658437-2 | 1658438-2         | 2-1658438-2 | 1658439-2         | 2-1658439-2 |
|                | 120              | 60.02<br>2.363  | 55.22<br>2.174 | 58.50<br>2.303 | 0.10<br>.004 | 2 | 40.00<br>1.575 | 1658437-3          | 2-1658437-3 | 1658438-3         | 2-1658438-3 | 1658439-3         | 2-1658439-3 |
|                | 160              | 80.01<br>3.015  | 75.21<br>2.961 | 78.49<br>3.090 | 0.15<br>.006 | 3 | 60.01<br>2.362 | 1658437-4          | 2-1658437-4 | 1658438-4         | 2-1658438-4 | 1658439-4         | 2-1658439-4 |
|                | 200              | 100.03<br>3.938 | 95.22<br>3.749 | 98.50<br>3.878 | 0.15<br>.006 | 4 | 80.01<br>3.150 | 1658437-5          | 2-1658437-5 | 1658438-5         | 2-1658438-5 | 1658439-5         | 2-1658439-5 |
| Tape & Reel    | 40               | 20.02<br>.788   | 15.21<br>.599  | 18.49<br>.728  | 0.10<br>.004 | 0 | 0.00<br>.000   | 4-1658437-1        | 6-1658437-1 | 4-1658438-1       | 6-1658438-1 | 4-1658439-1       | 6-1658439-1 |
|                | 80               | 40.01<br>1.575  | 35.20<br>1.386 | 38.48<br>1.515 | 0.10<br>.004 | 1 | 20.00<br>.788  | 4-1658437-2        | 6-1658437-2 | 4-1658438-2       | 6-1658438-2 | 4-1658439-2       | 6-1658439-2 |
|                | 120              | 60.02<br>2.363  | 55.22<br>2.174 | 58.50<br>2.303 | 0.10<br>.004 | 2 | 40.00<br>1.575 | 4-1658437-3        | 6-1658437-3 | 4-1658438-3       | 6-1658438-3 | 4-1658439-3       | 6-1658439-3 |

**Note:** All part numbers are RoHS compliant.

## MICTOR SB Interconnection System (Continued)

**0.80 [.032] Centerline**  
**16.00 [.630] Stack Height**  
**Plugs**

**Note:** Parts are available with vacuum dots for robotic placement.



MICTOR SB  
Interconnection System

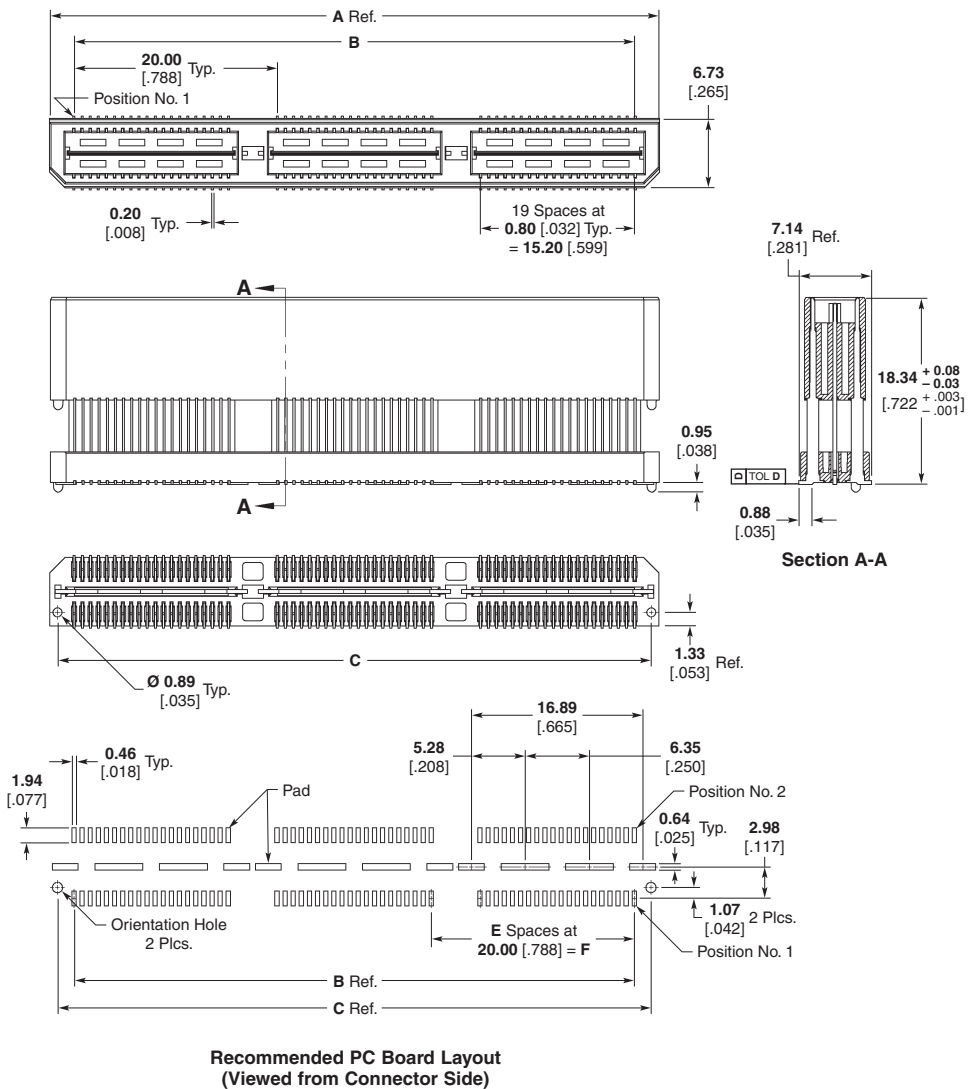
| Packaging Type | No. of Positions | Dimensions      |                |                |              |   |                | Gold Flash Plating |             | 10 $\mu$ Gold Plating |             | 30 $\mu$ Gold Plating |             |
|----------------|------------------|-----------------|----------------|----------------|--------------|---|----------------|--------------------|-------------|-----------------------|-------------|-----------------------|-------------|
|                |                  | A               | B              | C              | D            | E | F              | Vacuum Dots        |             | Vacuum Dots           |             | Vacuum Dots           |             |
|                |                  |                 |                |                |              |   |                | Without            | With        | Without               | With        | Without               | With        |
| Tray           | 40               | 20.02<br>.788   | 15.21<br>.599  | 18.49<br>.728  | 0.10<br>.004 | 0 | 0.00<br>.000   | 1658047-1          | 2-1658047-1 | 1658016-1             | 2-1658016-1 | 1658466-1             | 2-1658466-1 |
|                | 80               | 40.01<br>1.575  | 35.20<br>1.386 | 38.48<br>1.515 | 0.10<br>.004 | 1 | 20.00<br>.788  | 1658047-2          | 2-1658047-2 | 1658016-2             | 2-1658016-2 | 1658466-2             | 2-1658466-2 |
|                | 120              | 60.02<br>2.363  | 55.22<br>2.174 | 58.50<br>2.303 | 0.10<br>.004 | 2 | 40.00<br>1.575 | 1658047-3          | 2-1658047-3 | 1658016-3             | 2-1658016-3 | 1658466-3             | 2-1658466-3 |
|                | 160              | 80.01<br>3.015  | 75.21<br>2.961 | 78.49<br>3.090 | 0.15<br>.006 | 3 | 60.01<br>2.362 | 1658047-4          | 2-1658047-4 | 1658016-4             | 2-1658016-4 | 1658466-4             | 2-1658466-4 |
|                | 200              | 100.03<br>3.938 | 95.22<br>3.749 | 98.50<br>3.878 | 0.15<br>.006 | 4 | 80.01<br>3.150 | 1658047-5          | 2-1658047-5 | 1658016-5             | 2-1658016-5 | 1658466-5             | 2-1658466-5 |
| Tape & Reel    | 40               | 20.02<br>.788   | 15.21<br>.599  | 18.49<br>.728  | 0.10<br>.004 | 0 | 0.00<br>.000   | 4-1658047-1        | 6-1658047-1 | 4-1658016-1           | 6-1658016-1 | 4-1658466-1           | 6-1658466-1 |
|                | 80               | 40.01<br>1.575  | 35.20<br>1.386 | 38.48<br>1.515 | 0.10<br>.004 | 1 | 20.00<br>.788  | 4-1658047-2        | 6-1658047-2 | 4-1658016-2           | 6-1658016-2 | 4-1658466-2           | 6-1658466-2 |
|                | 120              | 60.02<br>2.363  | 55.22<br>2.174 | 58.50<br>2.303 | 0.10<br>.004 | 2 | 40.00<br>1.575 | 4-1658047-3        | 6-1658047-3 | 4-1658016-3           | 6-1658016-3 | 4-1658466-3           | 6-1658466-3 |

**Note:** All part numbers are RoHS compliant.

## MICTOR SB Interconnection System (Continued)

**0.80 [.032] Centerline  
19.00 [.748] Stack Height  
Plugs**

**Note:** Parts are available with vacuum dots for robotic placement.



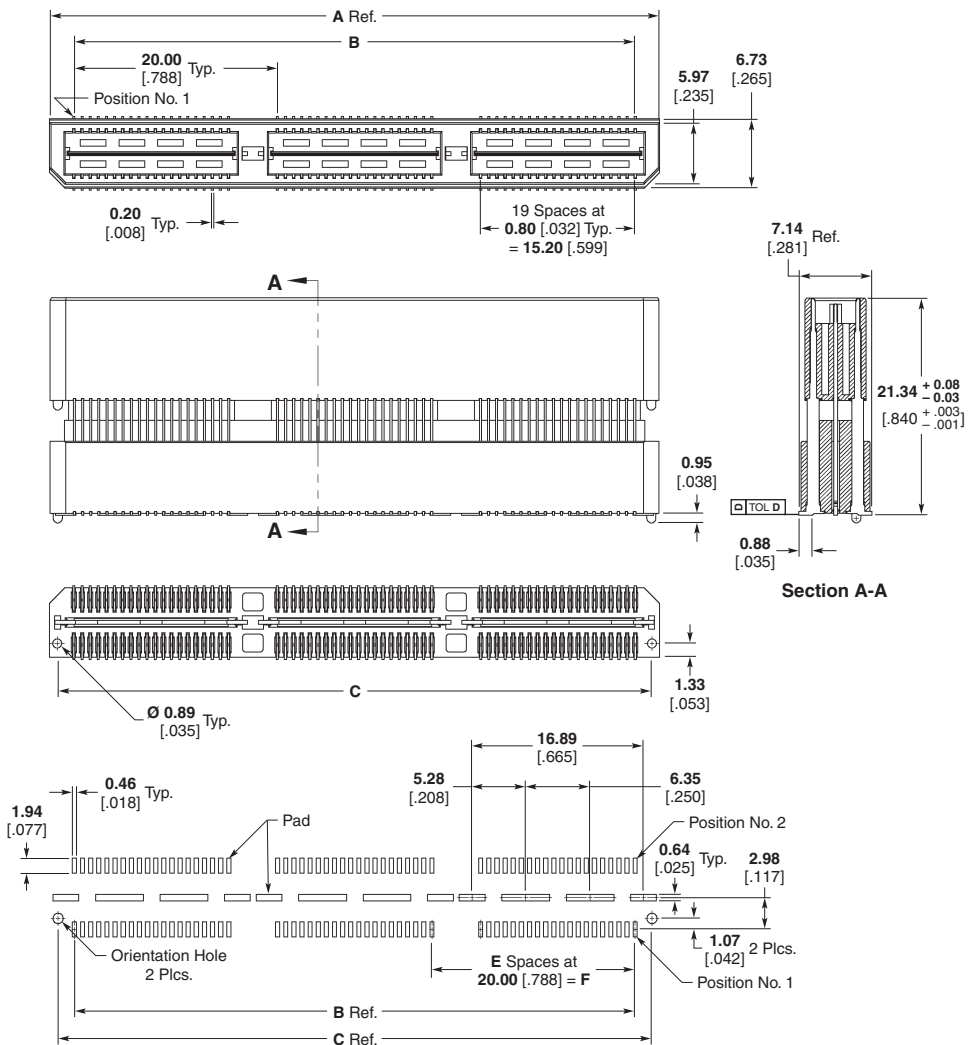
| Packaging Type | No. of Positions | Dimensions      |                |                |              |   |                | Gold Flash Plating |             | 10 $\mu$ Gold Plating |             | 30 $\mu$ Gold Plating |             |
|----------------|------------------|-----------------|----------------|----------------|--------------|---|----------------|--------------------|-------------|-----------------------|-------------|-----------------------|-------------|
|                |                  | A               | B              | C              | D            | E | F              | Vacuum Dots        |             | Vacuum Dots           |             | Vacuum Dots           |             |
|                |                  |                 |                |                |              |   |                | Without            | With        | Without               | With        | Without               | With        |
| Tray           | 40               | 20.02<br>.788   | 15.21<br>.599  | 18.49<br>.728  | 0.10<br>.004 | 0 | 0.00<br>.000   | 1658048-1          | 2-1658048-1 | 1658017-1             | 2-1658017-1 | 1658467-1             | 2-1658467-1 |
|                | 80               | 40.01<br>1.575  | 35.20<br>1.386 | 38.48<br>1.515 | 0.10<br>.004 | 1 | 20.00<br>.788  | 1658048-2          | 2-1658048-2 | 1658017-2             | 2-1658017-2 | 1658467-2             | 2-1658467-2 |
|                | 120              | 60.02<br>2.363  | 55.22<br>2.174 | 58.50<br>2.303 | 0.10<br>.004 | 2 | 40.00<br>1.575 | 1658048-3          | 2-1658048-3 | 1658017-3             | 2-1658017-3 | 1658467-3             | 2-1658467-3 |
|                | 160              | 80.01<br>3.015  | 75.21<br>2.961 | 78.49<br>3.090 | 0.15<br>.006 | 3 | 60.01<br>2.362 | 1658048-4          | 2-1658048-4 | 1658017-4             | 2-1658017-4 | 1658467-4             | 2-1658467-4 |
|                | 200              | 100.03<br>3.938 | 95.22<br>3.749 | 98.50<br>3.878 | 0.15<br>.006 | 4 | 80.01<br>3.150 | 1658048-5          | 2-1658048-5 | 1658017-5             | 2-1658017-5 | 1658467-5             | 2-1658467-5 |

**Note:** All part numbers are RoHS compliant.

## MICTOR SB Interconnection System (Continued)

**0.80 [.032] Centerline  
22.00 [.866] Stack Height  
Plugs**

**Note:** Parts are available with vacuum dots for robotic placement.



**Recommended PC Board Layout  
(Viewed from Connector Side)**

**MICTOR SB  
Interconnection System**

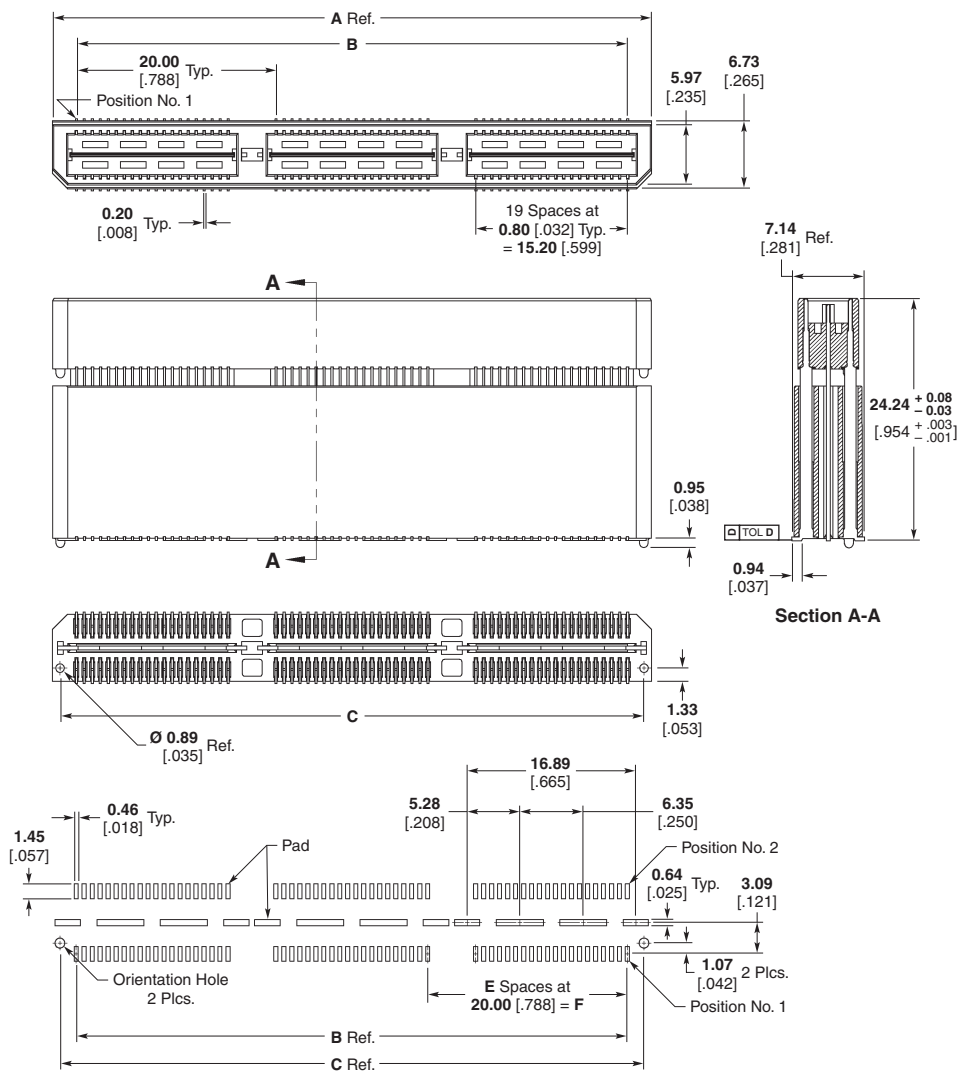
| Packaging Type | No. of Positions | Dimensions      |                |                |              |   |                | Gold Flash Plating |             | 10 µ Gold Plating |             | 30 µ Gold Plating |             |
|----------------|------------------|-----------------|----------------|----------------|--------------|---|----------------|--------------------|-------------|-------------------|-------------|-------------------|-------------|
|                |                  | A               | B              | C              | D            | E | F              | Vacuum Dots        |             | Vacuum Dots       |             | Vacuum Dots       |             |
|                |                  |                 |                |                |              |   |                | Without            | With        | Without           | With        | Without           | With        |
| Tray           | 40               | 20.02<br>.788   | 15.21<br>.599  | 18.49<br>.728  | 0.10<br>.004 | 0 | 0.00<br>.000   | 1658049-1          | 2-1658049-1 | 1658018-1         | 2-1658018-1 | 1658468-1         | 2-1658468-1 |
|                | 80               | 40.01<br>1.575  | 35.20<br>1.386 | 38.48<br>1.515 | 0.10<br>.004 | 1 | 20.00<br>.788  | 1658049-2          | 2-1658049-2 | 1658018-2         | 2-1658018-2 | 1658468-2         | 2-1658468-2 |
|                | 120              | 60.02<br>2.363  | 55.22<br>2.174 | 58.50<br>2.303 | 0.10<br>.004 | 2 | 40.00<br>1.575 | 1658049-3          | 2-1658049-3 | 1658018-3         | 2-1658018-3 | 1658468-3         | 2-1658468-3 |
|                | 160              | 80.01<br>3.015  | 75.21<br>2.961 | 78.49<br>3.090 | 0.15<br>.006 | 3 | 60.01<br>2.362 | 1658049-4          | 2-1658049-4 | 1658018-4         | 2-1658018-4 | 1658468-4         | 2-1658468-4 |
|                | 200              | 100.03<br>3.938 | 95.22<br>3.749 | 98.50<br>3.878 | 0.15<br>.006 | 4 | 80.01<br>3.150 | 1658049-5          | 2-1658049-5 | 1658018-5         | 2-1658018-5 | 1658468-5         | 2-1658468-5 |

**Note:** All part numbers are RoHS compliant.

## MICTOR SB Interconnection System (Continued)

**0.80 [.032] Centerline**  
**25.00 [.984] Stack Height**  
**Plugs**

**Note:** Parts are available with vacuum dots for robotic placement.



**Recommended PC Board Layout**  
**(Viewed from Connector Side)**

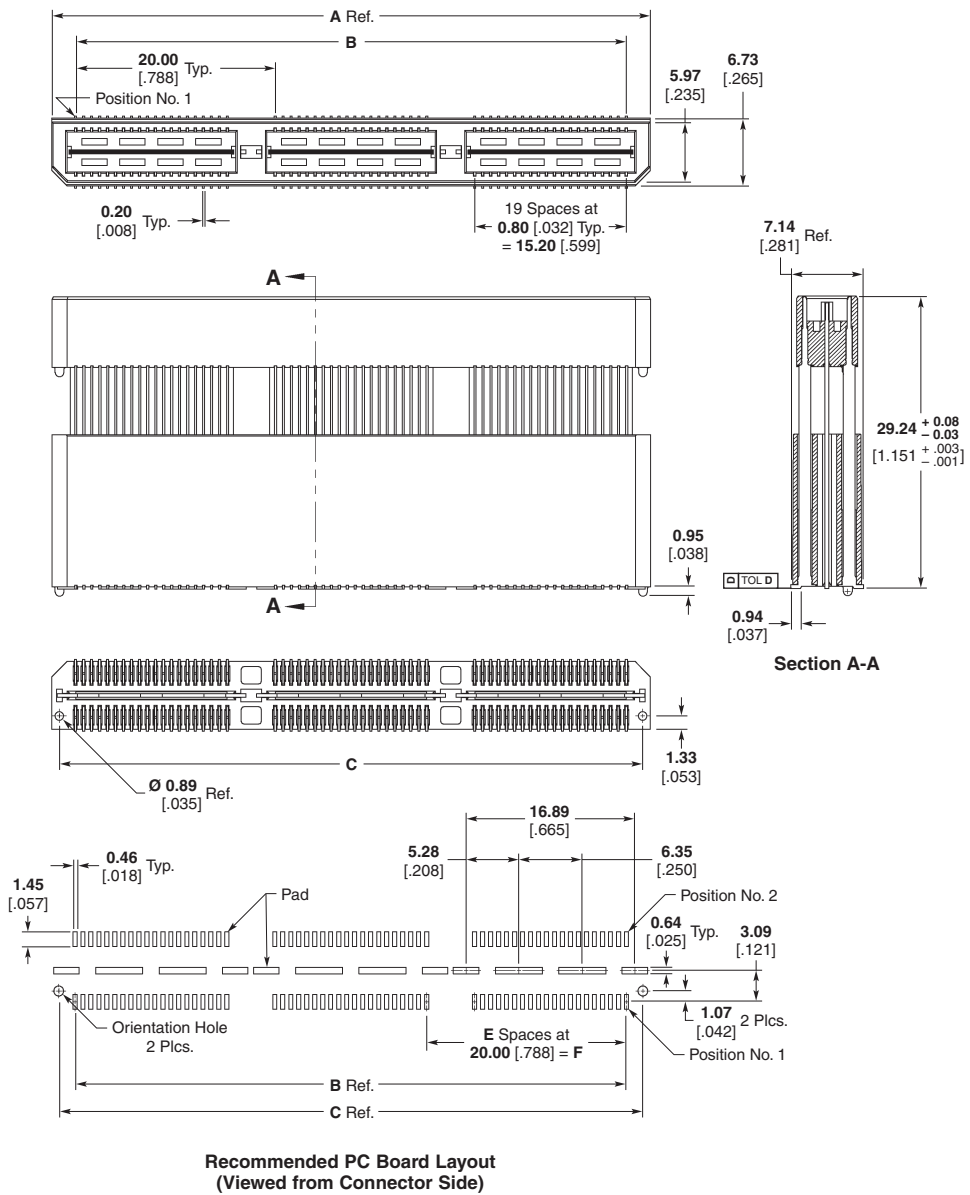
| Packaging Type | No. of Positions | Dimensions      |                |                |              |   |                | Gold Flash Plating |      | 10 $\mu$ Gold Plating |      | 30 $\mu$ Gold Plating |      |
|----------------|------------------|-----------------|----------------|----------------|--------------|---|----------------|--------------------|------|-----------------------|------|-----------------------|------|
|                |                  | A               | B              | C              | D            | E | F              | Vacuum Dots        |      | Vacuum Dots           |      | Vacuum Dots           |      |
|                |                  |                 |                |                |              |   |                | Without            | With | Without               | With | Without               | With |
| Tray           | 40               | 20.02<br>.788   | 15.21<br>.599  | 18.49<br>.728  | 0.10<br>.004 | 0 | 0.00<br>.000   | 1658050-1          | —    | 1658019-1             | —    | 1658469-1             | —    |
|                | 80               | 40.01<br>1.575  | 35.20<br>1.386 | 38.48<br>1.515 | 0.10<br>.004 | 1 | 20.00<br>.788  | 1658050-2          | —    | 1658019-2             | —    | 1658469-2             | —    |
|                | 120              | 60.02<br>2.363  | 55.22<br>2.174 | 58.50<br>2.303 | 0.10<br>.004 | 2 | 40.00<br>1.575 | 1658050-3          | —    | 1658019-3             | —    | 1658469-3             | —    |
|                | 160              | 80.01<br>3.015  | 75.21<br>2.961 | 78.49<br>3.090 | 0.15<br>.006 | 3 | 60.01<br>2.362 | 1658050-4          | —    | 1658019-4             | —    | 1658469-4             | —    |
|                | 200              | 100.03<br>3.938 | 95.22<br>3.749 | 98.50<br>3.878 | 0.15<br>.006 | 4 | 80.01<br>3.150 | 1658050-5          | —    | 1658019-5             | —    | 1658469-5             | —    |

**Note:** All part numbers are RoHS compliant.

## MICTOR SB Interconnection System (Continued)

**0.80 [0.032] Centerline**  
**30.00 [1.181] Stack Height**  
**Plugs**

**Note:** Parts are available with vacuum dots for robotic placement.



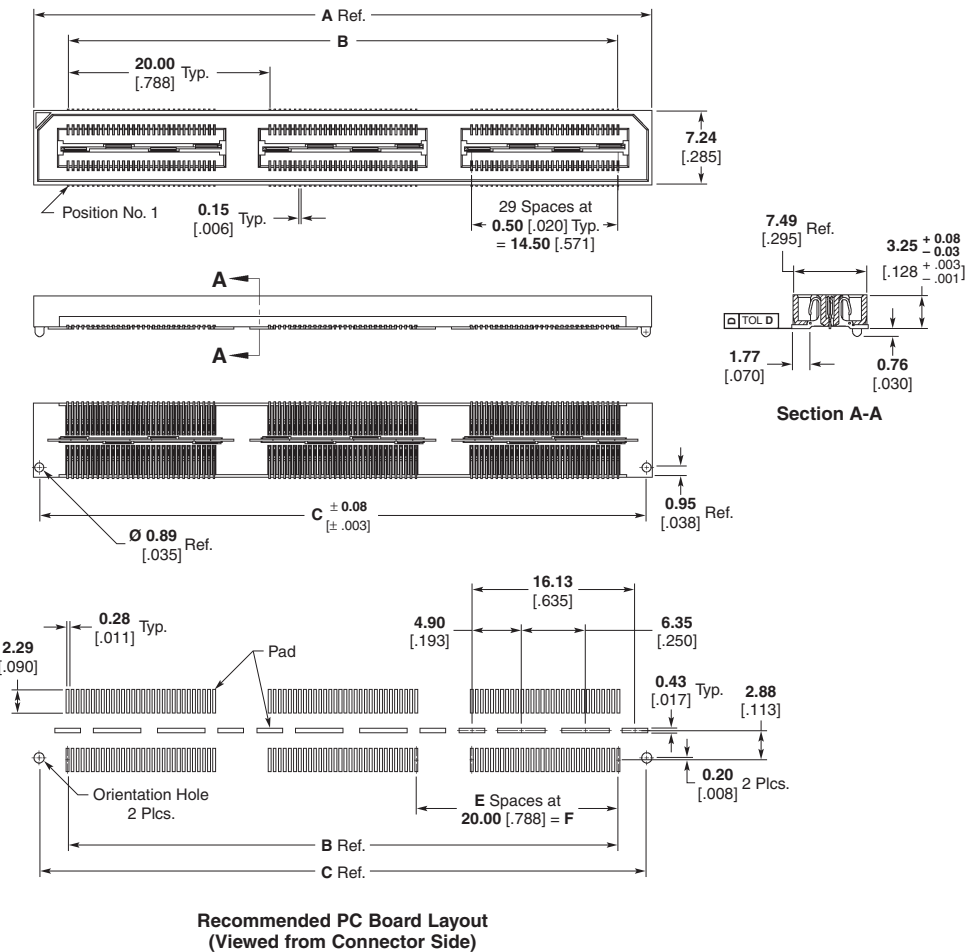
| Packaging Type | No. of Positions | Dimensions      |                |                |              |   |                | Gold Flash Plating |      | 10 $\mu$ Gold Plating |      | 30 $\mu$ Gold Plating |      |
|----------------|------------------|-----------------|----------------|----------------|--------------|---|----------------|--------------------|------|-----------------------|------|-----------------------|------|
|                |                  | A               | B              | C              | D            | E | F              | Vacuum Dots        |      | Vacuum Dots           |      | Vacuum Dots           |      |
|                |                  |                 |                |                |              |   |                | Without            | With | Without               | With | Without               | With |
| Tray           | 40               | 20.02<br>.788   | 15.21<br>.599  | 18.49<br>.728  | 0.10<br>.004 | 0 | 0.00<br>.000   | 1658051-1          | —    | 1658020-1             | —    | 1658470-1             | —    |
|                | 80               | 40.01<br>1.575  | 35.20<br>1.386 | 38.48<br>1.515 | 0.10<br>.004 | 1 | 20.00<br>.788  | 1658051-2          | —    | 1658020-2             | —    | 1658470-2             | —    |
|                | 120              | 60.02<br>2.363  | 55.22<br>2.174 | 58.50<br>2.303 | 0.10<br>.004 | 2 | 40.00<br>1.575 | 1658051-3          | —    | 1658020-3             | —    | 1658470-3             | —    |
|                | 160              | 80.01<br>3.015  | 75.21<br>2.961 | 78.49<br>3.090 | 0.15<br>.006 | 3 | 60.01<br>2.362 | 1658051-4          | —    | 1658020-4             | —    | 1658470-4             | —    |
|                | 200              | 100.03<br>3.938 | 95.22<br>3.749 | 98.50<br>3.878 | 0.15<br>.006 | 4 | 80.01<br>3.150 | 1658051-5          | —    | 1658020-5             | —    | 1658470-5             | —    |

**Note:** All part numbers are RoHS compliant.

## MICTOR SB Interconnection System (Continued)

### 0.50 [.020] Centerline Receptacles

**Note:** Parts are available with vacuum dots for robotic placement.



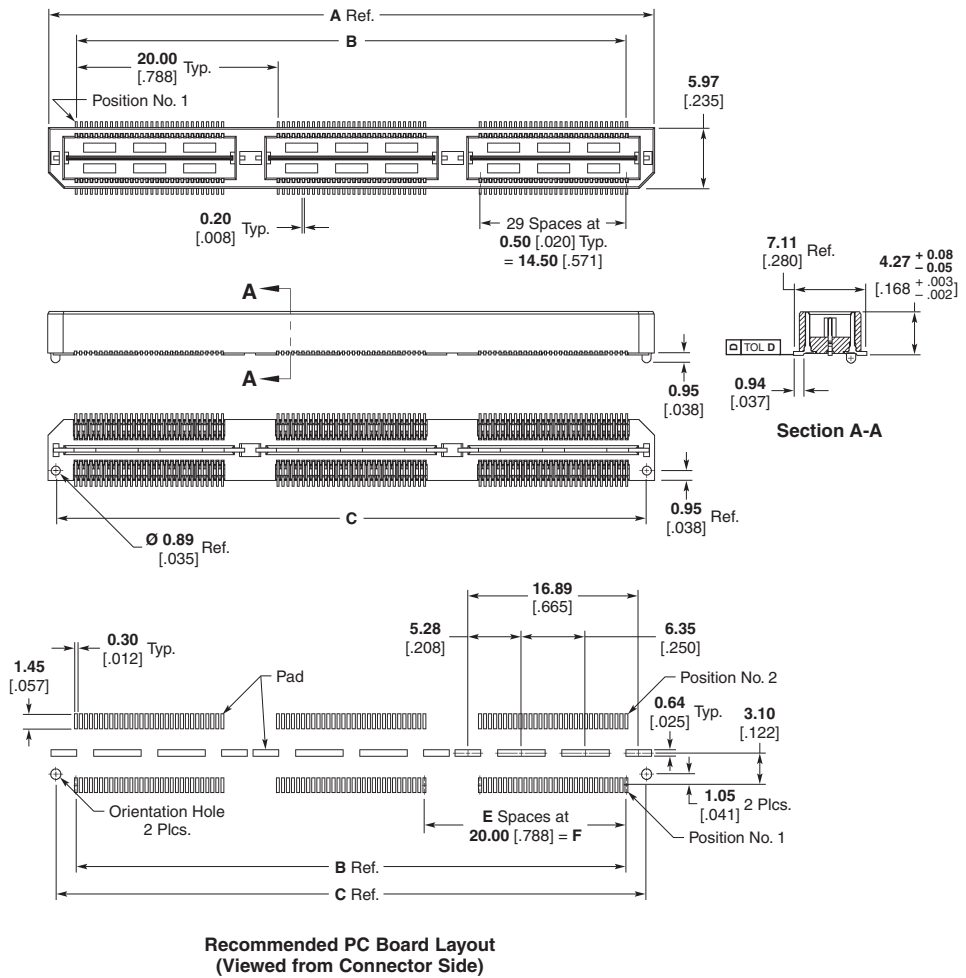
| Packaging Type | No. of Positions | Dimensions      |                |                 |              |   |                | Gold Flash Plating |             | 10 µ Gold Plating |             |
|----------------|------------------|-----------------|----------------|-----------------|--------------|---|----------------|--------------------|-------------|-------------------|-------------|
|                |                  | A               | B              | C               | D            | E | F              | Vacuum Dots        |             | Vacuum Dots       |             |
|                |                  |                 |                |                 |              |   |                | Without            | With        | Without           | With        |
| Tray           | 60               | 21.29<br>.838   | 14.50<br>.571  | 20.13<br>.793   | 0.10<br>.004 | 0 | 0.00<br>.000   | 1658052-1          | 2-1658052-1 | 1658021-1         | 2-1658021-1 |
|                | 120              | 41.28<br>1.625  | 34.51<br>1.359 | 40.13<br>1.580  | 0.10<br>.004 | 1 | 20.00<br>.788  | 1658052-2          | 2-1658052-2 | 1658021-2         | 2-1658021-2 |
|                | 180              | 61.28<br>2.412  | 54.51<br>2.146 | 60.13<br>2.368  | 0.15<br>.006 | 2 | 40.00<br>1.575 | 1658052-3          | 2-1658052-3 | 1658021-3         | 2-1658021-3 |
|                | 240              | 81.28<br>3.200  | 74.51<br>2.934 | 80.14<br>3.155  | 0.15<br>.006 | 3 | 60.01<br>2.362 | 1658052-4          | 2-1658052-4 | 1658021-4         | 2-1658021-4 |
|                | 300              | 101.30<br>3.988 | 94.51<br>3.721 | 100.14<br>3.943 | 0.15<br>.006 | 4 | 80.01<br>3.150 | 1658052-5          | 2-1658052-5 | 1658021-5         | 2-1658021-5 |
| Tape & Reel    | 60               | 21.29<br>0.838  | 14.50<br>0.571 | 20.13<br>0.793  | 0.10<br>.004 | 0 | 0.00<br>.000   | 4-1658052-1        | 6-1658052-1 | 4-1658021-1       | 6-1658021-1 |
|                | 120              | 41.28<br>1.625  | 34.51<br>1.359 | 40.13<br>1.580  | 0.10<br>.004 | 1 | 20.00<br>.788  | 4-1658052-2        | 6-1658052-2 | 4-1658021-2       | 6-1658021-2 |
|                | 180              | 61.28<br>2.412  | 54.51<br>2.146 | 60.13<br>2.368  | 0.15<br>.006 | 2 | 40.00<br>1.575 | 4-1658052-3        | 6-1658052-3 | 4-1658021-3       | 6-1658021-3 |

**Note:** All part numbers are RoHS compliant.

## MICTOR SB Interconnection System (Continued)

**0.50 [.020] Centerline**  
**5.00 [.197] Stack Height**  
**Plugs**

**Note:** Parts are available with vacuum dots for robotic placement.



MICTOR SB  
Interconnection System

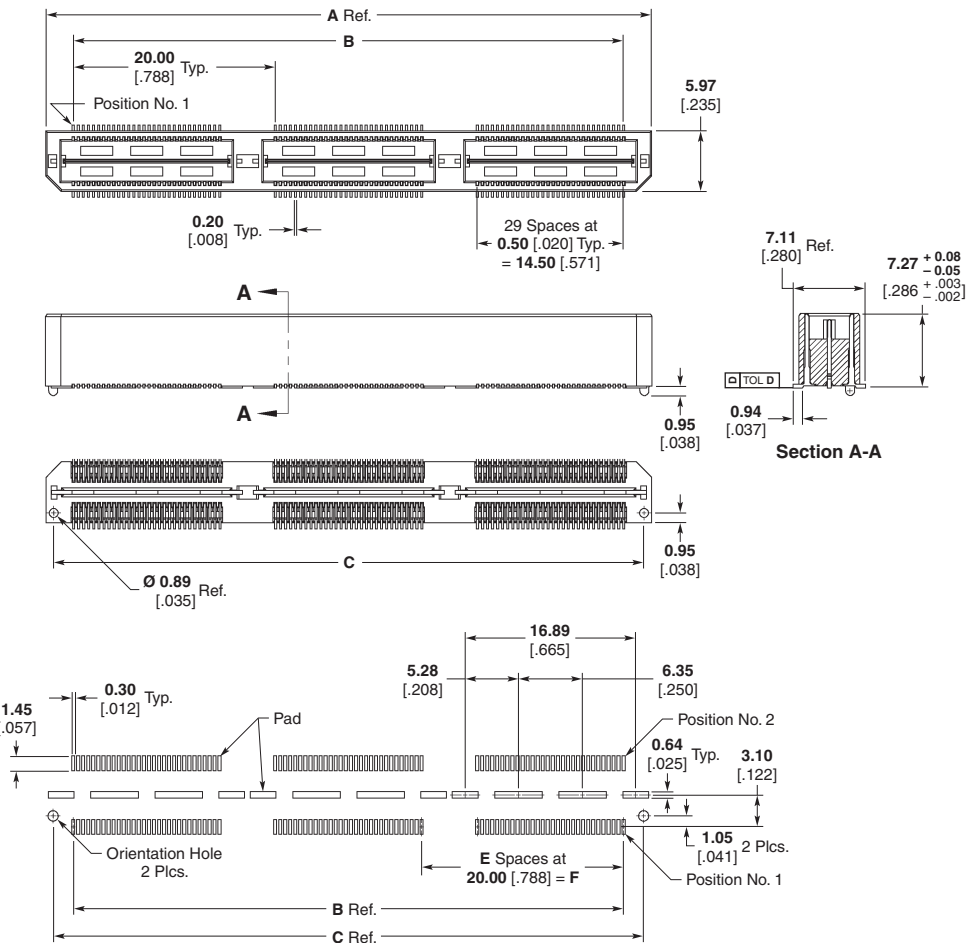
| Packaging Type | No. of Positions | Dimensions      |                |                |              |   |                | Gold Flash Plating |             | 10 $\mu$ Gold Plating |             |
|----------------|------------------|-----------------|----------------|----------------|--------------|---|----------------|--------------------|-------------|-----------------------|-------------|
|                |                  | A               | B              | C              | D            | E | F              | Vacuum Dots        |             | Vacuum Dots           |             |
|                |                  |                 |                |                |              |   |                | Without            | With        | Without               | With        |
| Tray           | 60               | 20.02<br>.788   | 14.50<br>.571  | 18.49<br>.728  | 0.10<br>.004 | 0 | 0.00<br>.000   | 1658053-1          | 2-1658053-1 | 1658022-1             | 2-1658022-1 |
|                | 120              | 40.01<br>1.575  | 34.51<br>1.359 | 38.48<br>1.515 | 0.10<br>.004 | 1 | 20.00<br>.788  | 1658053-2          | 2-1658053-2 | 1658022-2             | 2-1658022-2 |
|                | 180              | 60.02<br>2.363  | 54.51<br>2.146 | 58.50<br>2.303 | 0.10<br>.004 | 2 | 40.00<br>1.575 | 1658053-3          | 2-1658053-3 | 1658022-3             | 2-1658022-3 |
|                | 240              | 80.01<br>3.150  | 74.51<br>2.934 | 78.49<br>3.090 | 0.15<br>.006 | 3 | 60.01<br>2.362 | 1658053-4          | 2-1658053-4 | 1658022-4             | 2-1658022-4 |
|                | 300              | 100.03<br>3.938 | 94.51<br>3.721 | 98.50<br>3.878 | 0.15<br>.006 | 4 | 80.01<br>3.150 | 1658053-5          | 2-1658053-5 | 1658022-5             | 2-1658022-5 |
| Tape & Reel    | 60               | 20.02<br>.788   | 14.50<br>0.571 | 18.49<br>0.728 | 0.10<br>.004 | 0 | 0.00<br>.000   | 4-1658053-1        | 6-1658053-1 | 4-1658022-1           | 6-1658022-1 |
|                | 120              | 40.01<br>1.575  | 34.51<br>1.359 | 38.48<br>1.515 | 0.10<br>.004 | 1 | 20.00<br>.788  | 4-1658053-2        | 6-1658053-2 | 4-1658022-2           | 6-1658022-2 |
|                | 180              | 60.02<br>2.363  | 54.51<br>2.146 | 58.50<br>2.303 | 0.10<br>.004 | 2 | 40.00<br>1.575 | 4-1658053-3        | 6-1658053-3 | 4-1658022-3           | 6-1658022-3 |

**Note:** All part numbers are RoHS compliant.

## MICTOR SB Interconnection System (Continued)

**0.50 [.020] Centerline**  
**8.00 [.315] Stack Height**  
**Plugs**

**Note:** Parts are available with vacuum dots for robotic placement.



**Recommended PC Board Layout**  
(Viewed from Connector Side)

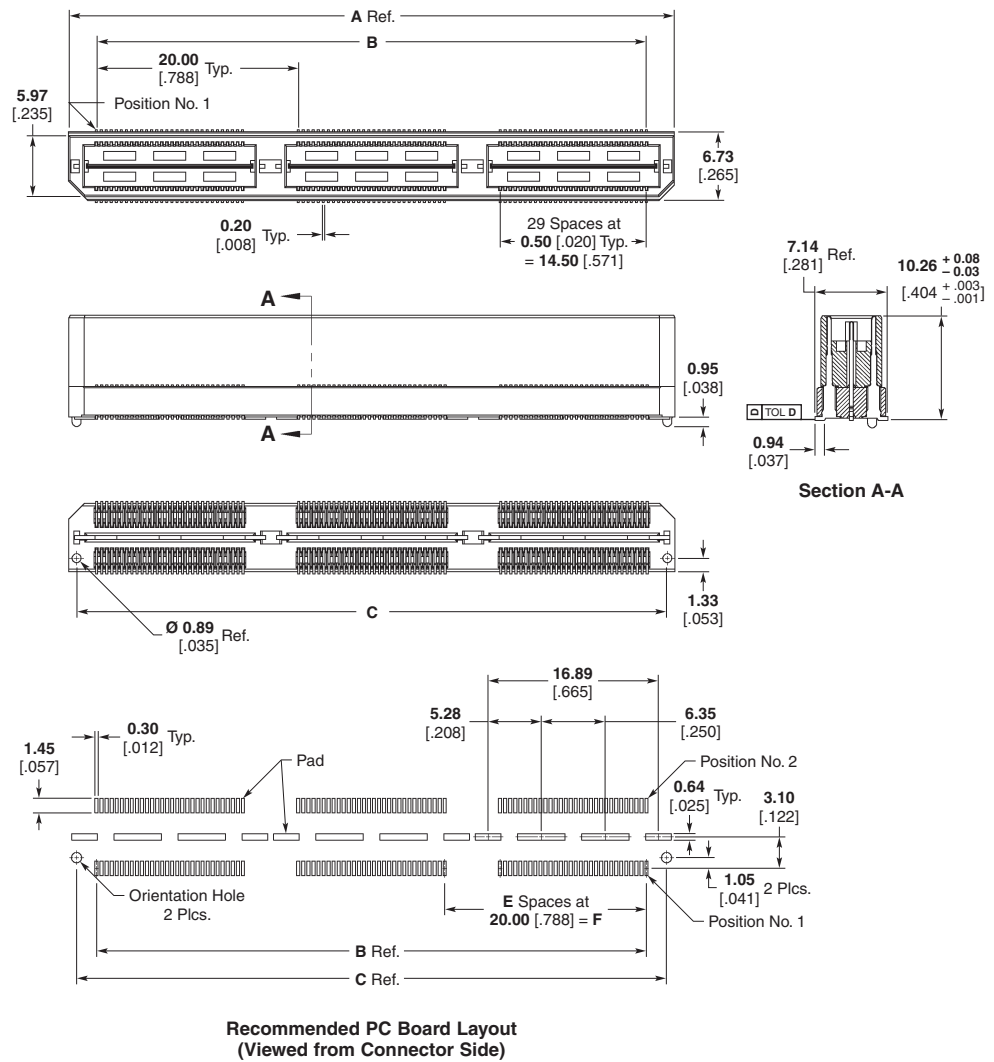
| Packaging Type | No. of Positions | Dimensions      |                |                |              |   |                | Gold Flash Plating |             | 10 $\mu$ Gold Plating |             |
|----------------|------------------|-----------------|----------------|----------------|--------------|---|----------------|--------------------|-------------|-----------------------|-------------|
|                |                  | A               | B              | C              | D            | E | F              | Vacuum Dots        |             | Vacuum Dots           |             |
|                |                  |                 |                |                |              |   |                | Without            | With        | Without               | With        |
| Tray           | 60               | 20.02<br>.788   | 14.50<br>.571  | 18.49<br>.728  | 0.10<br>.004 | 0 | 0.00<br>.000   | 1658054-1          | 2-1658054-1 | 1658023-1             | 2-1658023-1 |
|                | 120              | 40.01<br>1.575  | 34.51<br>1.359 | 38.48<br>1.515 | 0.10<br>.004 | 1 | 20.00<br>.788  | 1658054-2          | 2-1658054-2 | 1658023-2             | 2-1658023-2 |
|                | 180              | 60.02<br>2.363  | 54.51<br>2.146 | 58.50<br>2.303 | 0.10<br>.004 | 2 | 40.00<br>1.575 | 1658054-3          | 2-1658054-3 | 1658023-3             | 2-1658023-3 |
|                | 240              | 80.01<br>3.150  | 74.51<br>2.934 | 78.49<br>3.090 | 0.15<br>.006 | 3 | 60.01<br>2.362 | 1658054-4          | 2-1658054-4 | 1658023-4             | 2-1658023-4 |
|                | 300              | 100.03<br>3.938 | 94.51<br>3.721 | 98.50<br>3.878 | 0.15<br>.006 | 4 | 80.01<br>3.150 | 1658054-5          | 2-1658054-5 | 1658023-5             | 2-1658023-5 |
| Tape & Reel    | 60               | 20.02<br>.788   | 14.50<br>0.571 | 18.49<br>0.728 | 0.10<br>.004 | 0 | 0.00<br>.000   | 4-1658054-1        | 6-1658054-1 | 4-1658023-1           | 6-1658023-1 |
|                | 120              | 40.01<br>1.575  | 34.51<br>1.359 | 38.48<br>1.515 | 0.10<br>.004 | 1 | 20.00<br>.788  | 4-1658054-2        | 6-1658054-2 | 4-1658023-2           | 6-1658023-2 |
|                | 180              | 60.02<br>2.363  | 54.51<br>2.146 | 58.50<br>2.303 | 0.10<br>.004 | 2 | 40.00<br>1.575 | 4-1658054-3        | 6-1658054-3 | 4-1658023-3           | 6-1658023-3 |

**Note:** All part numbers are RoHS compliant.

## MICTOR SB Interconnection System (Continued)

**0.50 [.020] Centerline  
11.00 [.433] Stack Height  
Plugs**

**Note:** Parts are available with vacuum dots for robotic placement.

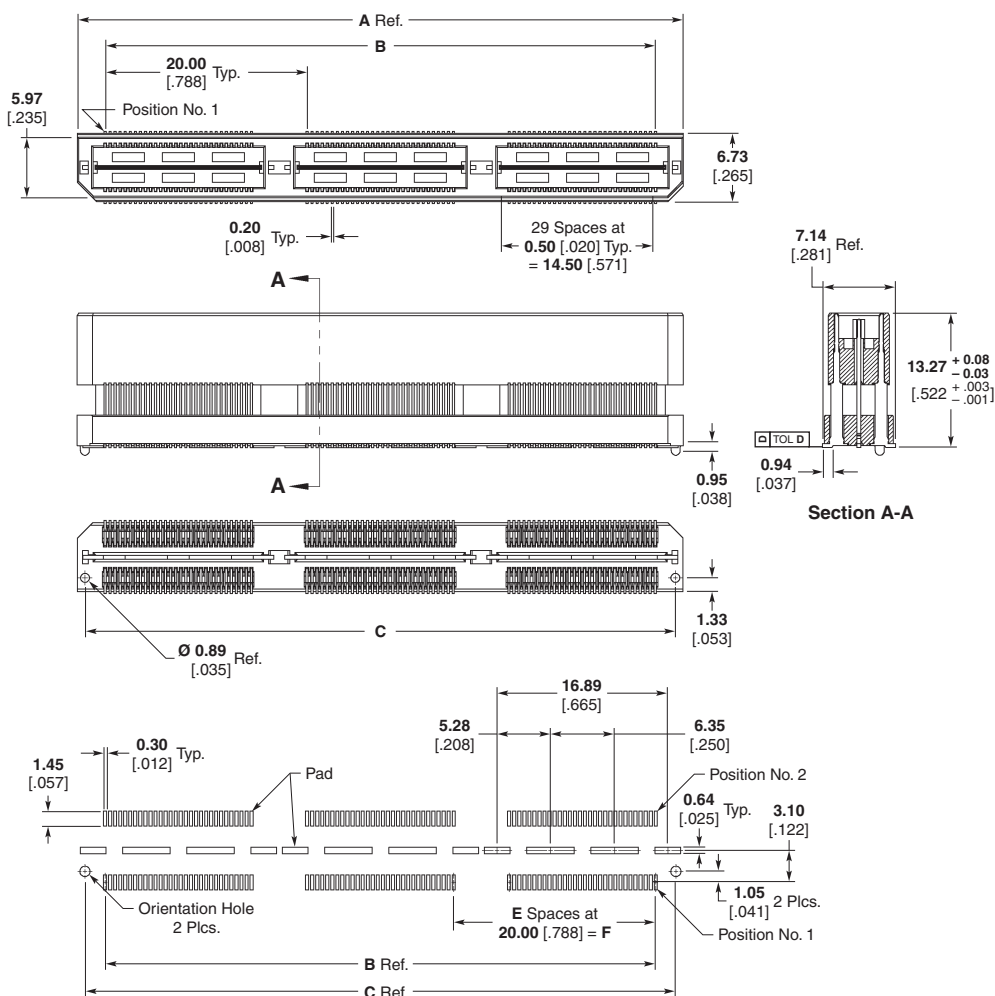


| Packaging Type | No. of Positions | Dimensions      |                |                |              |   |                | Gold Flash Plating |             | 10 µ Gold Plating |             |
|----------------|------------------|-----------------|----------------|----------------|--------------|---|----------------|--------------------|-------------|-------------------|-------------|
|                |                  | A               | B              | C              | D            | E | F              | Vacuum Dots        |             | Vacuum Dots       |             |
|                |                  |                 |                |                |              |   |                | Without            | With        | Without           | With        |
| Tray           | 60               | 20.02<br>.788   | 14.50<br>.571  | 18.49<br>.728  | 0.10<br>.004 | 0 | 0.00<br>.000   | 1658055-1          | 2-1658055-1 | 1658024-1         | 2-1658024-1 |
|                | 120              | 40.01<br>1.575  | 34.51<br>1.359 | 38.48<br>1.515 | 0.10<br>.004 | 1 | 20.00<br>.788  | 1658055-2          | 2-1658055-2 | 1658024-2         | 2-1658024-2 |
|                | 180              | 60.02<br>2.363  | 54.51<br>2.146 | 58.50<br>2.303 | 0.10<br>.004 | 2 | 40.00<br>1.575 | 1658055-3          | 2-1658055-3 | 1658024-3         | 2-1658024-3 |
|                | 240              | 80.01<br>3.150  | 74.51<br>2.934 | 78.49<br>3.090 | 0.15<br>.006 | 3 | 60.01<br>2.362 | 1658055-4          | 2-1658055-4 | 1658024-4         | 2-1658024-4 |
|                | 300              | 100.03<br>3.938 | 94.51<br>3.721 | 98.50<br>3.878 | 0.15<br>.006 | 4 | 80.01<br>3.150 | 1658055-5          | 2-1658055-5 | 1658024-5         | 2-1658024-5 |
| Tape & Reel    | 60               | 20.02<br>.788   | 14.50<br>0.571 | 18.49<br>0.728 | 0.10<br>.004 | 0 | 0.00<br>.000   | 4-1658055-1        | 6-1658055-1 | 4-1658024-1       | 6-1658024-1 |
|                | 120              | 40.01<br>1.575  | 34.51<br>1.359 | 38.48<br>1.515 | 0.10<br>.004 | 1 | 20.00<br>.788  | 4-1658055-2        | 6-1658055-2 | 4-1658024-2       | 6-1658024-2 |
|                | 180              | 60.02<br>2.363  | 54.51<br>2.146 | 58.50<br>2.303 | 0.10<br>.004 | 2 | 40.00<br>1.575 | 4-1658055-3        | 6-1658055-3 | 4-1658024-3       | 6-1658024-3 |

**Note:** All part numbers are RoHS compliant.

### MICTOR SB Interconnection System (Continued)

**0.50 [.020] Centerline**  
**14.00 [.551] Stack Height**  
**Plugs**



**Note:** Parts are available with vacuum dots for robotic placement.

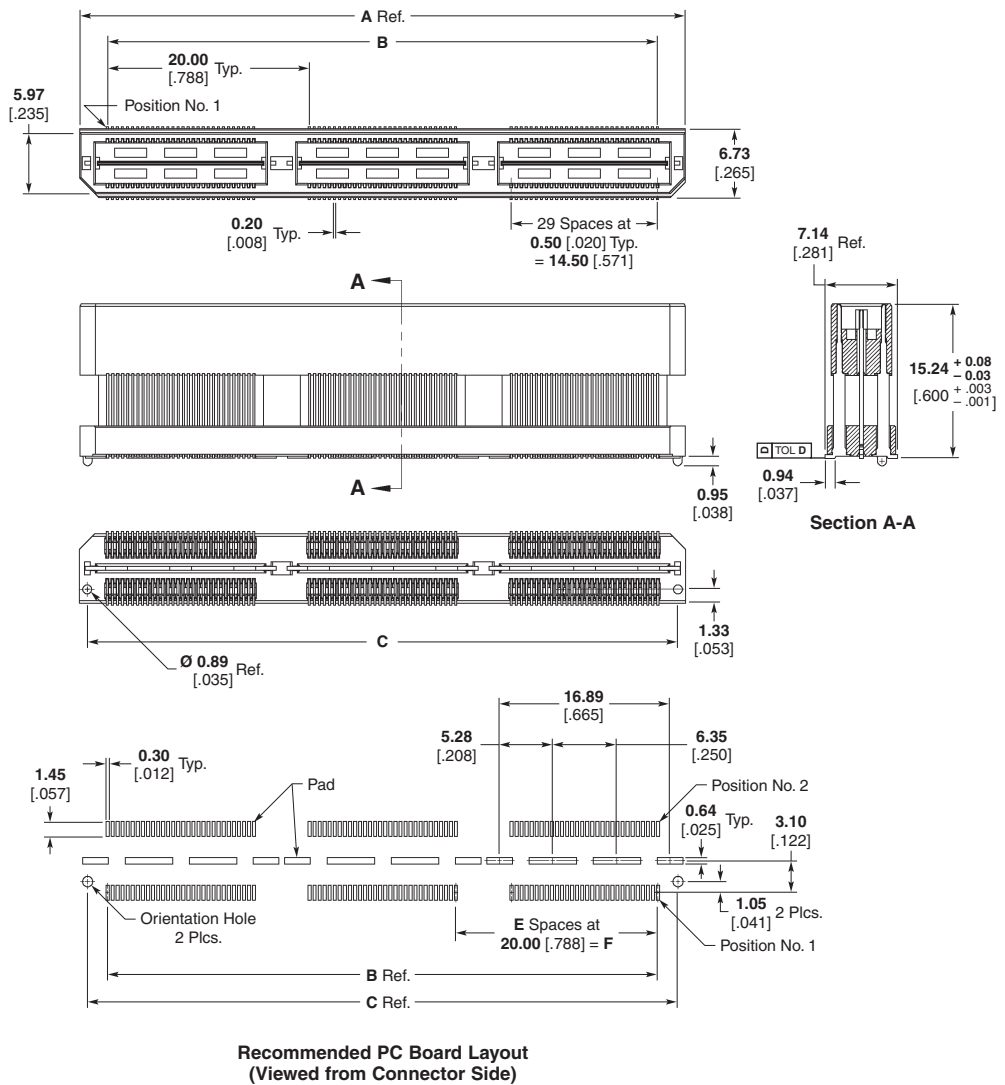
### Recommended PC Board Layout (Viewed from Connector Side)

| Packaging Type | No. of Positions | Dimensions      |                |                |              |   |                | Gold Flash Plating |             | 10 μ Gold Plating |             |
|----------------|------------------|-----------------|----------------|----------------|--------------|---|----------------|--------------------|-------------|-------------------|-------------|
|                |                  | A               | B              | C              | D            | E | F              | Vacuum Dots        |             | Vacuum Dots       |             |
|                |                  |                 |                |                |              |   |                | Without            | With        | Without           | With        |
| Tray           | 60               | 20.02<br>.788   | 14.50<br>.571  | 18.49<br>.728  | 0.10<br>.004 | 0 | 0.00<br>.000   | 1658056-1          | 2-1658056-1 | 1658025-1         | 2-1658025-1 |
|                | 120              | 40.01<br>1.575  | 34.51<br>1.359 | 38.48<br>1.515 | 0.10<br>.004 | 1 | 20.00<br>.788  | 1658056-2          | 2-1658056-2 | 1658025-2         | 2-1658025-2 |
|                | 180              | 60.02<br>2.363  | 54.51<br>2.146 | 58.50<br>2.303 | 0.10<br>.004 | 2 | 40.00<br>1.575 | 1658056-3          | 2-1658056-3 | 1658025-3         | 2-1658025-3 |
|                | 240              | 80.01<br>3.150  | 74.51<br>2.934 | 78.49<br>3.090 | 0.15<br>.006 | 3 | 60.01<br>2.362 | 1658056-4          | 2-1658056-4 | 1658025-4         | 2-1658025-4 |
|                | 300              | 100.03<br>3.938 | 94.51<br>3.721 | 98.50<br>3.878 | 0.15<br>.006 | 4 | 80.01<br>3.150 | 1658056-5          | 2-1658056-5 | 1658025-5         | 2-1658025-5 |
| Tape & Reel    | 60               | 20.02<br>.788   | 14.50<br>0.571 | 18.49<br>0.728 | 0.10<br>.004 | 0 | 0.00<br>.000   | 4-1658056-1        | 6-1658056-1 | 4-1658025-1       | 6-1658025-1 |
|                | 120              | 40.01<br>1.575  | 34.51<br>1.359 | 38.48<br>1.515 | 0.10<br>.004 | 1 | 20.00<br>.788  | 4-1658056-2        | 6-1658056-2 | 4-1658025-2       | 6-1658025-2 |
|                | 180              | 60.02<br>2.363  | 54.51<br>2.146 | 58.50<br>2.303 | 0.10<br>.004 | 2 | 40.00<br>1.575 | 4-1658056-3        | 6-1658056-3 | 4-1658025-3       | 6-1658025-3 |

**Note:** All part numbers are RoHS compliant.

## MICTOR SB Interconnection System (Continued)

**0.50 [.020] Centerline  
16.00 [.630] Stack Height  
Plugs**

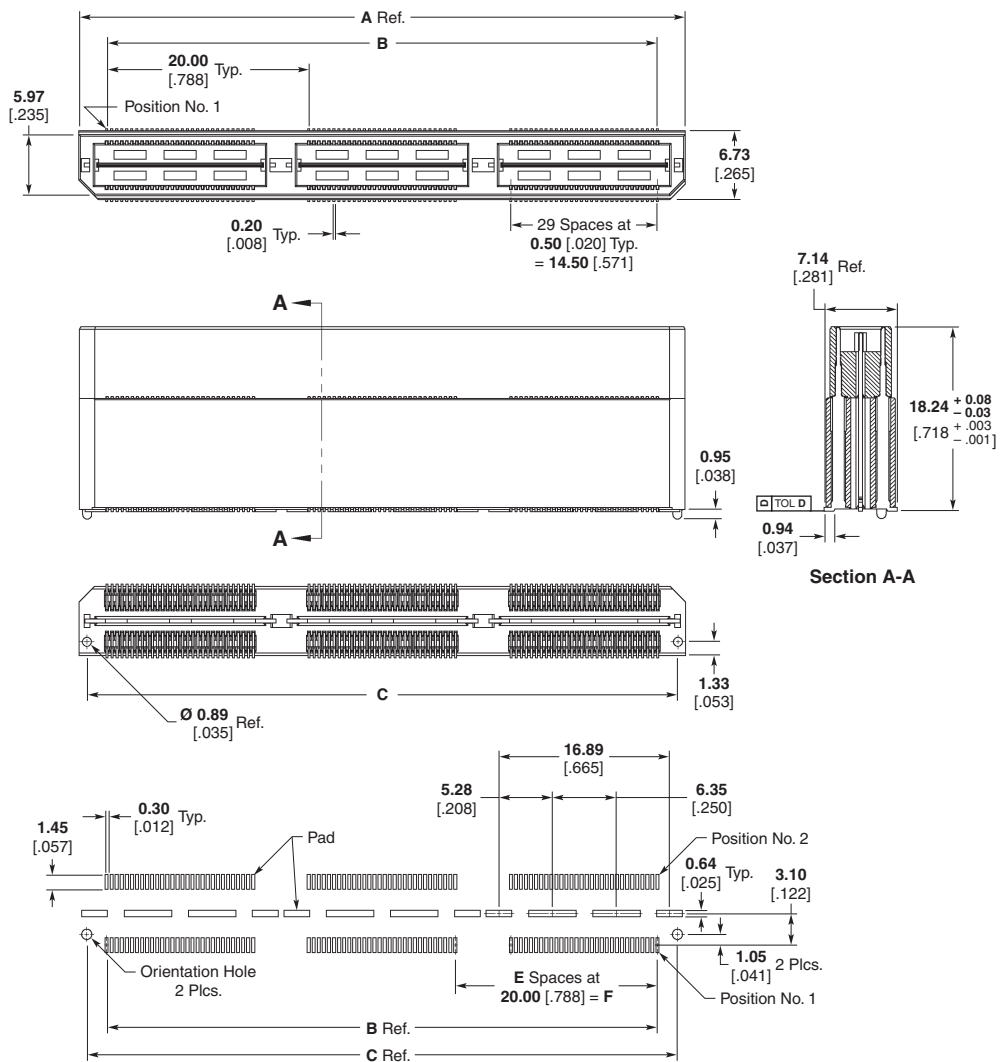


| Packaging Type | No. of Positions | Dimensions      |                |                |              |   |                | Gold Flash Plating |             | 10 $\mu$ Gold Plating |             |
|----------------|------------------|-----------------|----------------|----------------|--------------|---|----------------|--------------------|-------------|-----------------------|-------------|
|                |                  | A               | B              | C              | D            | E | F              | Vacuum Dots        |             | Vacuum Dots           |             |
|                |                  |                 |                |                |              |   |                | Without            | With        | Without               | With        |
| Tray           | 60               | 20.02<br>.788   | 14.50<br>.571  | 18.49<br>.728  | 0.10<br>.004 | 0 | 0.00<br>.000   | 1658057-1          | 2-1658057-1 | 1658026-1             | 2-1658026-1 |
|                | 120              | 40.01<br>1.575  | 34.51<br>1.359 | 38.48<br>1.515 | 0.10<br>.004 | 1 | 20.00<br>.788  | 1658057-2          | 2-1658057-2 | 1658026-2             | 2-1658026-2 |
|                | 180              | 60.02<br>2.363  | 54.51<br>2.146 | 58.50<br>2.303 | 0.10<br>.004 | 2 | 40.00<br>1.575 | 1658057-3          | 2-1658057-3 | 1658026-3             | 2-1658026-3 |
|                | 240              | 80.01<br>3.150  | 74.51<br>2.934 | 78.49<br>3.090 | 0.15<br>.006 | 3 | 60.01<br>2.362 | 1658057-4          | 2-1658057-4 | 1658026-4             | 2-1658026-4 |
|                | 300              | 100.03<br>3.938 | 94.51<br>3.721 | 98.50<br>3.878 | 0.15<br>.006 | 4 | 80.01<br>3.150 | 1658057-5          | 2-1658057-5 | 1658026-5             | 2-1658026-5 |
| Tape & Reel    | 60               | 20.02<br>.788   | 14.50<br>0.571 | 18.49<br>0.728 | 0.10<br>.004 | 0 | 0.00<br>.000   | 4-1658057-1        | 6-1658057-1 | 4-1658026-1           | 6-1658026-1 |
|                | 120              | 40.01<br>1.575  | 34.51<br>1.359 | 38.48<br>1.515 | 0.10<br>.004 | 1 | 20.00<br>.788  | 4-1658057-2        | 6-1658057-2 | 4-1658026-2           | 6-1658026-2 |
|                | 180              | 60.02<br>2.363  | 54.51<br>2.146 | 58.50<br>2.303 | 0.10<br>.004 | 2 | 40.00<br>1.575 | 4-1658057-3        | 6-1658057-3 | 4-1658026-3           | 6-1658026-3 |

**Note:** All part numbers are RoHS compliant.

## MICTOR SB Interconnection System (Continued)

**0.50 [.020] Centerline  
19.00 [.748] Stack Height  
Plugs**



**Note:** Parts are available with vacuum dots for robotic placement.

**Recommended PC Board Layout  
(Viewed from Connector Side)**

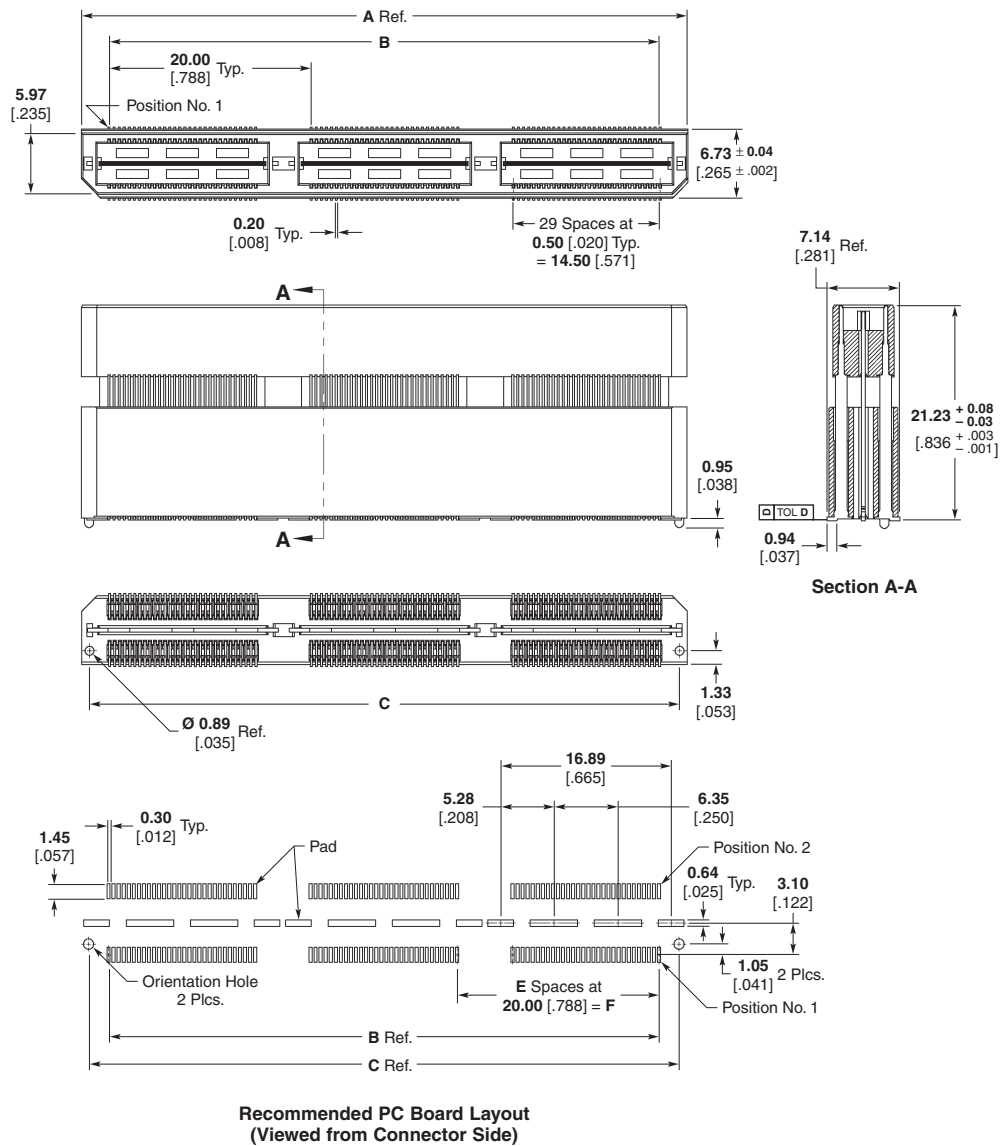
| Packaging Type | No. of Positions | Dimensions      |                |                |              |   |                | Gold Flash Plating |      | 10 µ Gold Plating |      |
|----------------|------------------|-----------------|----------------|----------------|--------------|---|----------------|--------------------|------|-------------------|------|
|                |                  | A               | B              | C              | D            | E | F              | Vacuum Dots        |      | Vacuum Dots       |      |
|                |                  |                 |                |                |              |   |                | Without            | With | Without           | With |
| Tray           | 60               | 20.02<br>.788   | 14.50<br>.571  | 18.49<br>.728  | 0.10<br>.004 | 0 | 0.00<br>.000   | 1658058-1          | —    | 1658027-1         | —    |
|                | 120              | 40.01<br>1.575  | 34.51<br>1.359 | 38.48<br>1.515 | 0.10<br>.004 | 1 | 20.00<br>.788  | 1658058-2          | —    | 1658027-2         | —    |
|                | 180              | 60.02<br>2.363  | 54.51<br>2.146 | 58.50<br>2.303 | 0.10<br>.004 | 2 | 40.00<br>1.575 | 1658058-3          | —    | 1658027-3         | —    |
|                | 240              | 80.01<br>3.150  | 74.51<br>2.934 | 78.49<br>3.090 | 0.15<br>.006 | 3 | 60.01<br>2.362 | 1658058-4          | —    | 1658027-4         | —    |
|                | 300              | 100.03<br>3.938 | 94.51<br>3.721 | 98.50<br>3.878 | 0.15<br>.006 | 4 | 80.01<br>3.150 | 1658058-5          | —    | 1658027-5         | —    |

**Note:** All part numbers are RoHS compliant.

## MICTOR SB Interconnection System (Continued)

**0.50 [.020] Centerline  
22.00 [.866] Stack Height  
Plugs**

**Note:** Parts are available with vacuum dots for robotic placement.

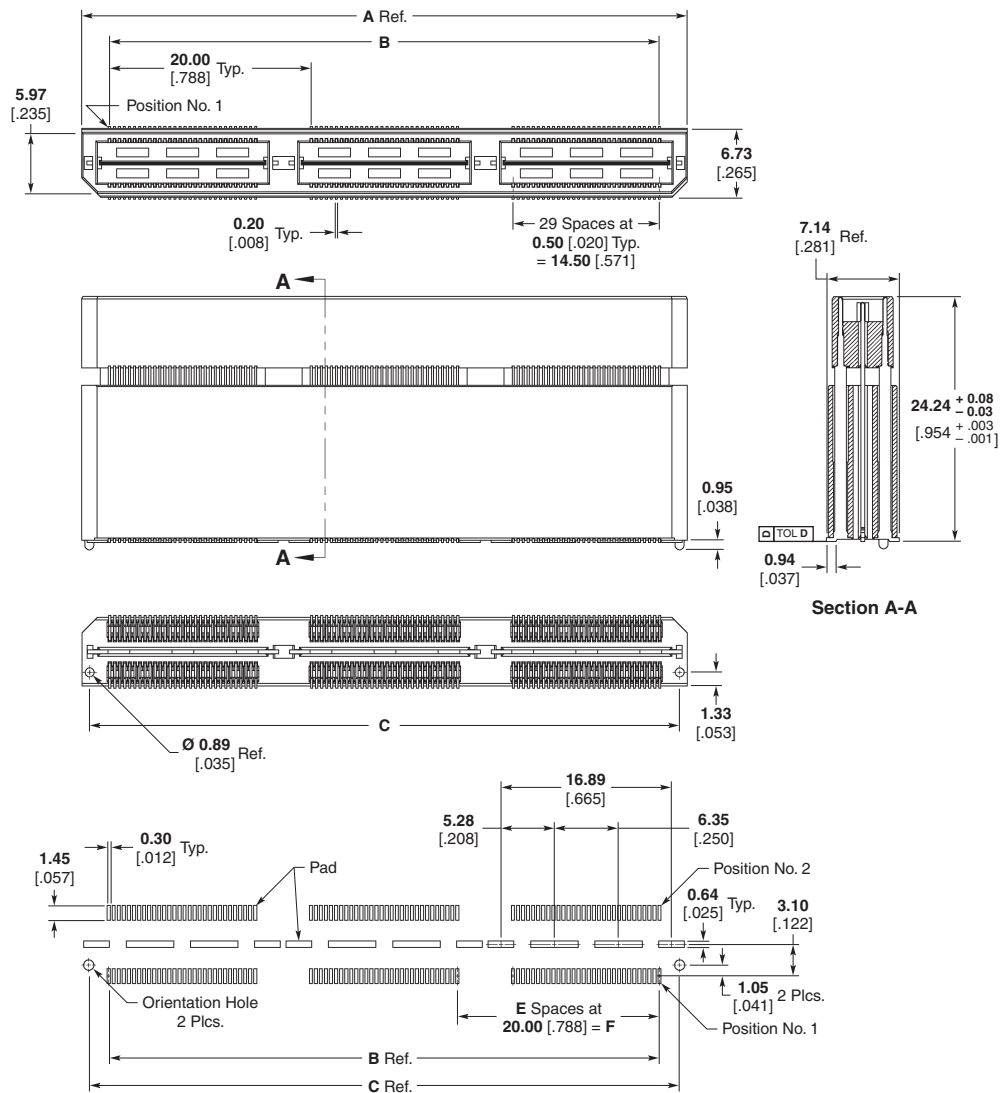


| Packaging Type | No. of Positions | Dimensions      |                |                |              |   |                | Gold Flash Plating |      | 10 µ Gold Plating |      |
|----------------|------------------|-----------------|----------------|----------------|--------------|---|----------------|--------------------|------|-------------------|------|
|                |                  | A               | B              | C              | D            | E | F              | Vacuum Dots        |      | Vacuum Dots       |      |
|                |                  |                 |                |                |              |   |                | Without            | With | Without           | With |
| Tray           | 60               | 20.02<br>.788   | 14.50<br>.571  | 18.49<br>.728  | 0.10<br>.004 | 0 | 0.00<br>.000   | 1658059-1          | —    | 1658028-1         | —    |
|                | 120              | 40.01<br>1.575  | 34.51<br>1.359 | 38.48<br>1.515 | 0.10<br>.004 | 1 | 20.00<br>.788  | 1658059-2          | —    | 1658028-2         | —    |
|                | 180              | 60.02<br>2.363  | 54.51<br>2.146 | 58.50<br>2.303 | 0.10<br>.004 | 2 | 40.00<br>1.575 | 1658059-3          | —    | 1658028-3         | —    |
|                | 240              | 80.01<br>3.150  | 74.51<br>2.934 | 78.49<br>3.090 | 0.15<br>.006 | 3 | 60.01<br>2.362 | 1658059-4          | —    | 1658028-4         | —    |
|                | 300              | 100.03<br>3.938 | 94.51<br>3.721 | 98.50<br>3.878 | 0.15<br>.006 | 4 | 80.01<br>3.150 | 1658059-5          | —    | 1658028-5         | —    |

**Note:** All part numbers are RoHS compliant.

## MICTOR SB Interconnection System (Continued)

**0.50 [.020] Centerline  
25.00 [.984] Stack Height  
Plugs**



**Recommended PC Board Layout  
(Viewed from Connector Side)**

| Packaging Type | No. of Positions | Dimensions      |                |                |              |   |                | Gold Flash Plating |      | 10 µ Gold Plating |      |
|----------------|------------------|-----------------|----------------|----------------|--------------|---|----------------|--------------------|------|-------------------|------|
|                |                  | A               | B              | C              | D            | E | F              | Vacuum Dots        |      | Vacuum Dots       |      |
|                |                  |                 |                |                |              |   |                | Without            | With | Without           | With |
| Tray           | 60               | 20.02<br>.788   | 14.50<br>.571  | 18.49<br>.728  | 0.10<br>.004 | 0 | 0.00<br>.000   | 1658060-1          | —    | 1658029-1         | —    |
|                | 120              | 40.01<br>1.575  | 34.51<br>1.359 | 38.48<br>1.515 | 0.10<br>.004 | 1 | 20.00<br>.788  | 1658060-2          | —    | 1658029-2         | —    |
|                | 180              | 60.02<br>2.363  | 54.51<br>2.146 | 58.50<br>2.303 | 0.10<br>.004 | 2 | 40.00<br>1.575 | 1658060-3          | —    | 1658029-3         | —    |
|                | 240              | 80.01<br>3.150  | 74.51<br>2.934 | 78.49<br>3.090 | 0.15<br>.006 | 3 | 60.01<br>2.362 | 1658060-4          | —    | 1658029-4         | —    |
|                | 300              | 100.03<br>3.938 | 94.51<br>3.721 | 98.50<br>3.878 | 0.15<br>.006 | 4 | 80.01<br>3.150 | 1658060-5          | —    | 1658029-5         | —    |

**Note:** All part numbers are RoHS compliant.