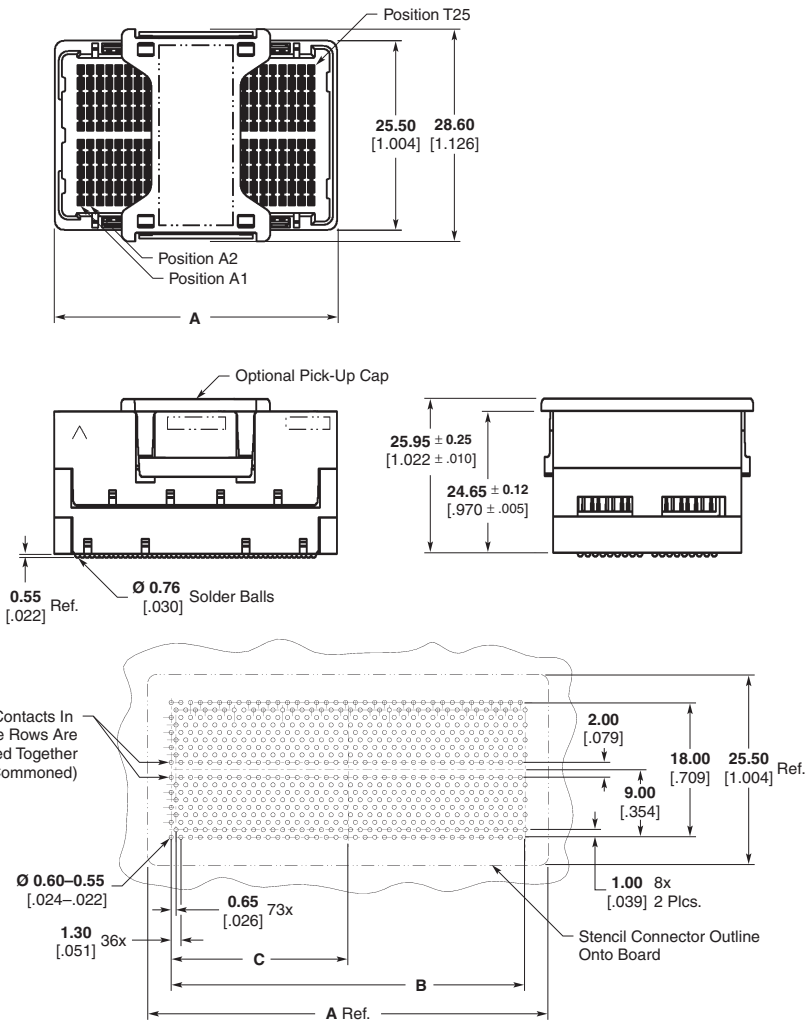
STEP-Z Interconnection System (Continued)

25.00 [.984] Plugs



Recommended PC Board Layout

No. of Pos.*	Dimensions			Plating	Part Numbers
	A	B	C		With Pick & Place Cap
200	**38.20** 1.504	**31.85** 1.254	**15.93** .627	SnPb	2-1761614-5●
				Pb-free	7-1761614-5
296	**53.75** 2.116	**47.45** 1.868	**23.725** .934	SnPb	2-1761616-5●
				Pb-free	7-1761616-5

* Signal contacts only, ground contacts not included.
Tray packaged Part Numbers shown. Contact Tyco Electronics Engineering for Tape and Reel packaged versions.

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant;
● Indicates "5 of 6 compliant" (lead in solderable interface only).

Catalog 65194
Revised 6-07

www.tycoelectronics.com

Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are standard equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-8706-080-208

Introduction to the MICTOR Interconnection System (0.64 [.025] Centerline)

Product Facts

- **76 dedicated signal lines per linear inch**
- **Surface mount family designed for parallel and right-angle board-to-board, flex-to-board and cable-to-board configurations**
- **0.64 [.025] centerline contact spacing**
- **Redundant interfaces on mated contacts**
- **Fifteen mated stack heights available ranging from 6.60 [.260] to 31.90 [1.256]**
- **Infrared and forced air convection compatible housing materials**
- **Designed for 50-ohm systems**
- **Connector housings polarized for correct mating**
- **Built-in connector-to-board retention feature**
- **Connector can be separated by peeling from one end to the other**
- **Various packaging styles can be made available for automated assembly (tape and reel, tubes)**
- **Recognized under the Component Program of Underwriter Laboratories Inc. File No. E28476**

The MICTOR connector family is based on the microstrip concept of two rows of signal contacts divided by a center power ground plane. MICTOR connectors are mother-board and daughtercard compatible and include designs for cable-to-board applications.

Various mated heights are available for parallel board-to-board systems. Custom stacking heights can be provided. The MICTOR connector family is available in 0.64 [.025] centerlines and in sizes ranging from 38 signal positions to 266 positions (in increments of 38 positions). There is a discrete ground bus every 12.7 [.50] of the connector length, which can be assigned to either power or ground in any combination.

Redundant interfaces on every signal line provide added reliability. Two plating options are available to meet the needs of various applications.

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

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

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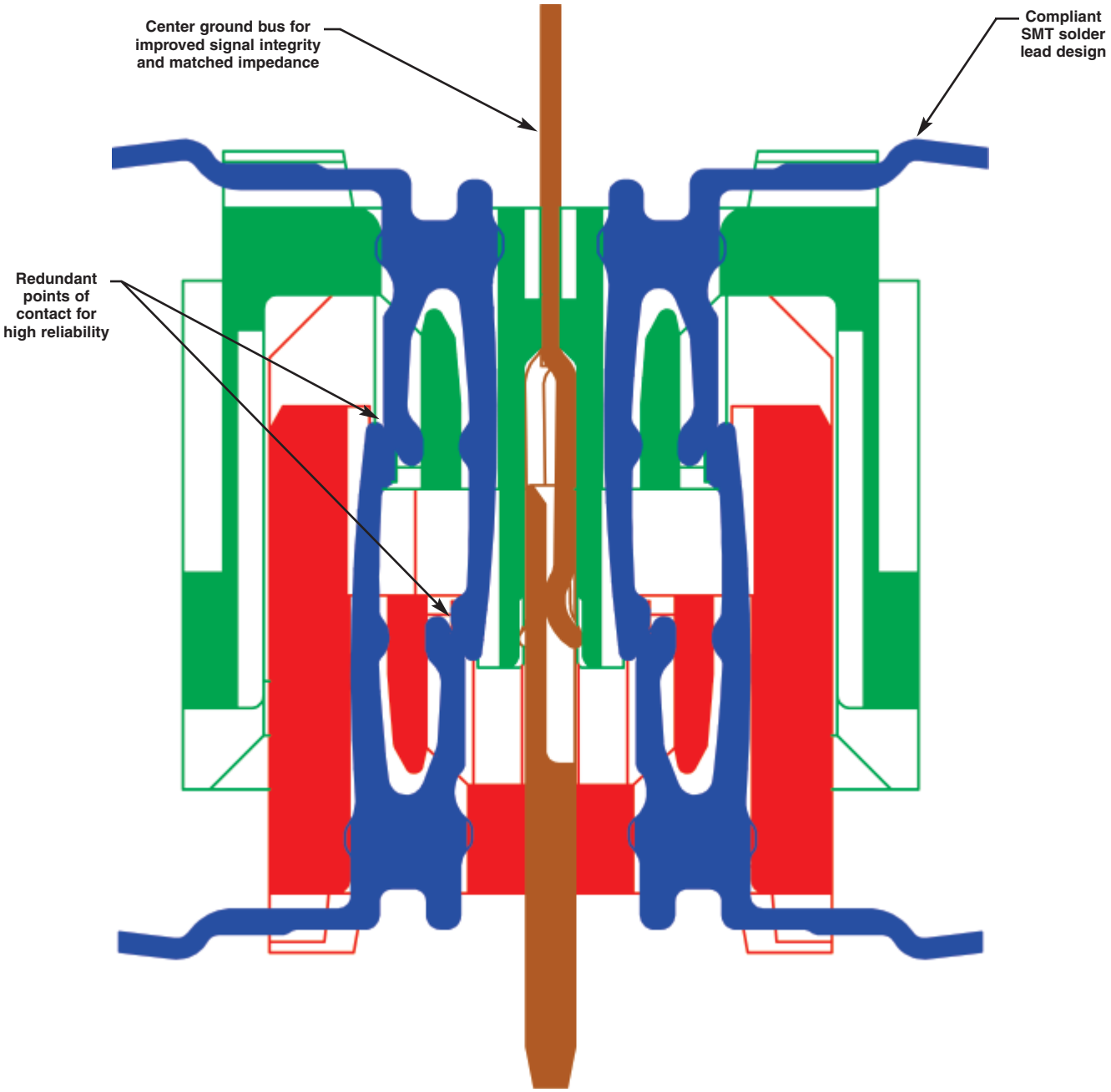
MICTOR Connector Cross Section



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

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Material and Performance Specifications, MICTOR Connectors

Material Specifications

Material

Housing — Liquid crystal polymer, black

Contacts — High reliability copper alloy

Ground Bus — Phosphor bronze

Finish (Gold Plating)

Contacts and Ground Bus — Duplex plated 0.00076 [.000030] min. gold in mating area, 0.00381 [.000150] min. tin-lead on leads, with entire contact and ground bus underplated 0.00178 [.000070] min. nickel

Finish (Palladium-Nickel Plating)

Contacts and Ground Bus — Duplex plated 0.000013 [.000005] min. gold over 0.00076 [.000030] min. palladium-nickel in mating area, 0.00381 [.000150] min. tin-lead on leads, with entire contact and ground bus underplated 0.00178 [.000070] min. nickel

Finish (Lead-Free Plating)

Contacts and Ground Bus — 0.00076 [.000030] min. gold on contact area, 0.00381-0.00635 [.000150-.000250] matte tin per ASTM B 545 on leads, all over 0.00177-0.00445 [.000070-.000175] nickel.

Or

0.00013 [.000005] min. gold over, 0.00076 [.000030] min. palladium nickel on contact area, 0.00381-0.00635 [.000150-.000250] matte tin per ASTM B 545 on leads, all over 0.00191-0.00445 [.000075-.000175] nickel.

Performance Specifications

Ratings

Voltage — 30 vac

Current — Signal; rated 1.0 Amps, fully derated 0.5 Amps
Ground; rated 11.5 Amps, fully derated 7.6 Amps

Temperature — -55°C to +125°C

Electrical Characteristics

Characteristic Impedance — 50±5 ohms at 1 ns

Termination Resistance — ΔR 10 milliohms max.; Specification 109-6-1

Insulation Resistance — 10,000 megohms min.; Specification 109-208-1

Dielectric Withstanding Voltage — 500 vac at sea level; Specification 109-29-1

Mechanical Characteristics

Solderability — Solderable area shall have a 95% min. solder coverage; Specification 109-11-1

Vibration (Random) — No discontinuities of 1 µs or longer duration; Specification 109-21-5

Physical Shock — No discontinuities of 1 µs or longer duration; Specification 109-26-1

Durability (Tested to) — Mate and unmate samples at a rate of 600 cycles max. per hour. 25 cycles, gold plating; 500 cycles, palladium-nickel plating; Specification 109-27

Contact Retention — 1 lb min.; Specification 109-30

Mating Force — 152 oz max. per 1/2 inch of connector (1 module). Each module equals 38 signal contacts and 1 ground bus; Specification 109-42

Unmating Force — 19 oz min. per 1/2 inch of connector (1 module). Each module equals 38 signal contacts and 1 ground bus; Specification 109-42

Environmental Characteristics

Thermal Shock — Subject mated samples to 5 cycles between -55°C and +125°C; Specification 109-22

Humidity - Temperature Cycling — Subject mated samples to 10 cycles between +25°C and +65°C at 95% RH; Specification 109-23-3, Condition B

Temperature Cycling — Subject mated samples to 1024 cycles between -40°C and +60°C at 2 hours per cycle; Specification 109-75-1

Temperature Life — Subject mated samples to temperature life at +118°C for 792 hours; Specification 109-43

Mixed Flowing Gas — Subject mated samples to environmental class II for 14 days; Specification 109-85-2

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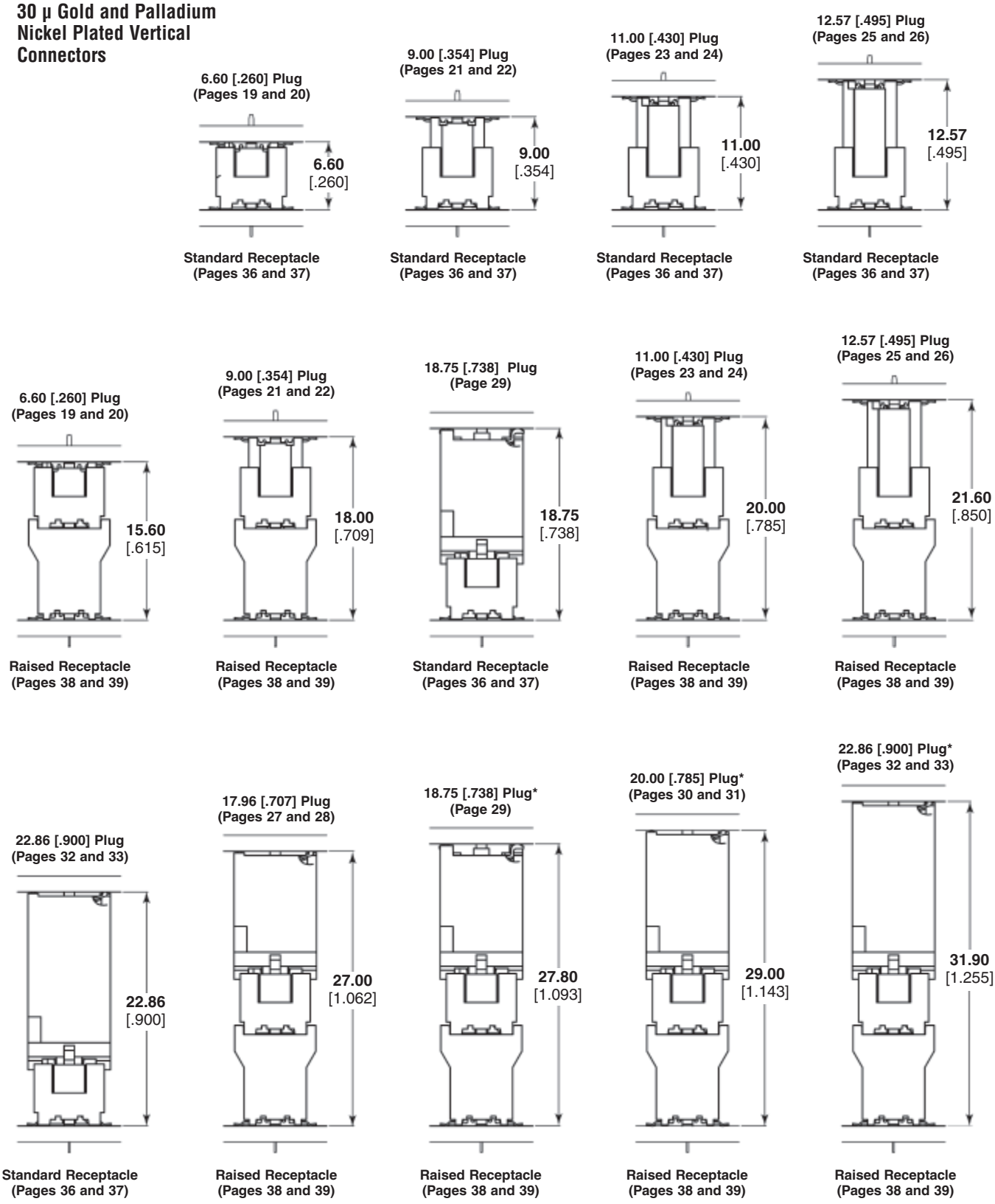
MICTOR Stack Height Combinations

30 µ Gold and Palladium Nickel Plated Vertical Connectors



*This connector not available in Palladium Nickel.

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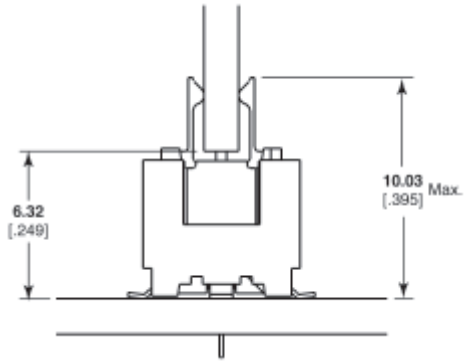
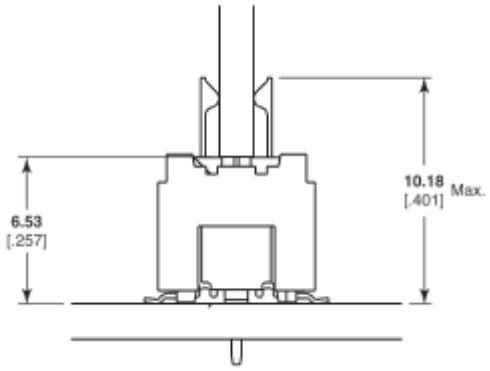
MICTOR Right-Angle (Straddle Mount) Combinations

**30 µ Gold & Palladium
Nickel Connections**



**Vertical Receptacle with
Right-Angle Plug**



**Vertical Plug with
Right-Angle Receptacle**

Right-angle versions are designed for paddlecard type applications. It is highly recommended that customers who are considering right-angle applications contact Tyco Electronics Engineering to review their applications as the potential for tolerancing issues and/or issues of solder joint integrity can be highly application specific.

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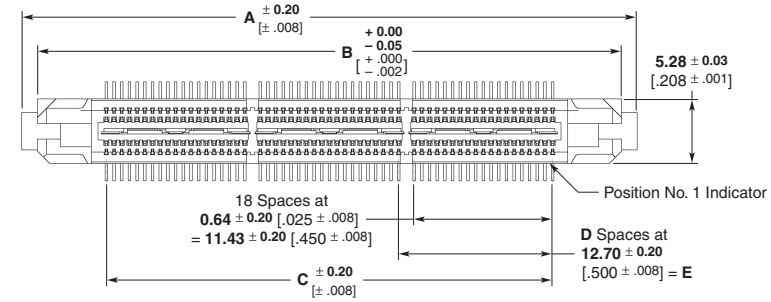
MICTOR Vertical Plugs

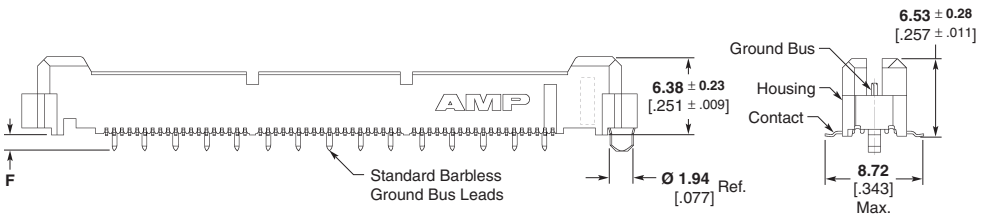
6.60 [.260] Stacking Height*

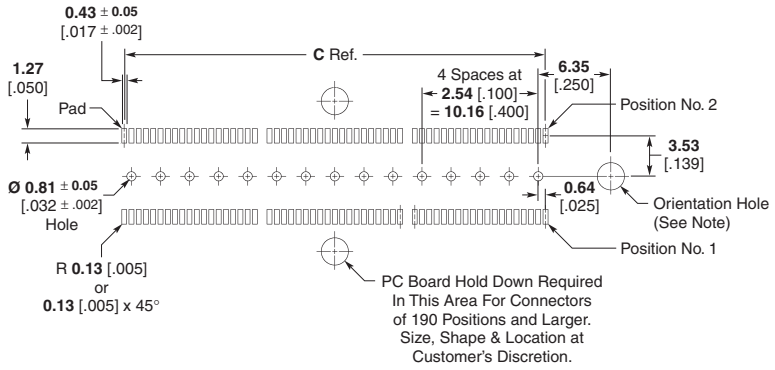
Related Product Data

Material and Finish — page 16
Performance Characteristics — page 16
Mating Receptacles — pages 36-41
Technical Documents — page 81

*6.60 [.260] stack height when mated to vertical receptacle; 15.62 [.615] stack height when mated to vertical receptacle (extended height).







Recommended PC Board Layout
(Viewed from Connector Side)

Note: For standard applications, the orientation hole must be 2.39±0.05 [.094±.002]; For slip-fit applications, the orientation hole must be 2.00±0.03 [.079±.001].

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MICTOR Vertical Plugs (Continued)

6.60 [.260]
Stacking Height (Continued)

No. of Pos.	Dimensions A	B	C	D	E	F	Platings Solder Tail	Contact	Part Numbers: Barbed G/B Leads Tube	Barbed G/B Leads T&R Vacuum Caps With	Barbed G/B Leads T&R Vacuum Caps Without	Barbless G/B Leads Tube	Barbless G/B Leads T&R Vacuum Caps With	Barbless G/B Leads T&R Vacuum Caps Without
38	**25.40** 1.000	**22.81** .898	**11.43** .450	0	—	**1.35** [.053]	SnPb	Gold	767007-8●	767111-8●	767111-1●	767116-1●	767118-1●	767118-8●
						2.72 [.107]		PdNi	767056-1●	—	—	—	—	—
						2.64 [.104]			—	—	—	767117-1●	767119-1●	767119-8●
						1.35 [.053]	Pb-free	Gold	5767007-8	5767111-8	5767111-1	5767116-1	5767118-1	5767118-8
						2.72 [.107]		PdNi	5767056-1	—	—	—	—	—
						2.64 [.104]			—	—	—	5767117-1	5767119-1	5767119-8
76	**38.10** 1.500	**31.70** 1.248	**24.13** .950	1	**12.70** .500	**1.35** [.053]	SnPb	Gold	767007-9●	767111-9●	767111-2●	767116-2●	767118-2●	767118-9●
						2.72 [.107]		PdNi	767056-2●	—	—	—	—	—
						2.64 [.104]			—	—	—	767117-2●	767119-2●	767119-9●
						1.35 [.053]	Pb-free	Gold	5767007-9	5767111-9	5767111-2	5767116-2	5767118-2	5767118-9
						2.72 [.107]		PdNi	5767056-2	—	—	—	—	—
						2.64 [.104]			—	—	—	5767117-2	5767119-2	5767119-9
114	**50.80** 2.000	**48.21** 1.898	**36.83** 1.450	2	**25.40** 1.000	**1.35** [.053]	SnPb	Gold	1-767007-0●	1-767111-0●	767111-3●	767116-3●	767118-3●	1-767118-0●
						2.72 [.107]		PdNi	767056-3●	—	—	—	—	—
						2.64 [.104]			—	—	—	767117-3●	767119-3●	1-767119-0●
						1.35 [.053]	Pb-free	Gold	1-5767007-0	1-5767111-0	5767111-3	5767116-3	5767118-3	1-5767118-0
						2.72 [.107]		PdNi	5767056-3	—	—	—	—	—
						2.64 [.104]			—	—	—	5767117-3	5767119-3	1-5767119-0
152	**63.50** 2.500	**60.91** 2.398	**49.53** 1.950	3	**38.10** 1.500	**1.35** [.053]	SnPb	Gold	1-767007-1●	1-767111-1●	767111-4●	767116-4●	767118-4●	1-767118-1●
						2.72 [.107]		PdNi	767056-4●	—	—	—	—	—
						2.64 [.104]			—	—	—	767117-4●	767119-4●	1-767119-1●
						1.35 [.053]	Pb-free	Gold	1-5767007-1	1-5767111-1	5767111-4	5767116-4	5767118-4	1-5767118-1
						2.72 [.107]		PdNi	5767056-4	—	—	—	—	—
						2.64 [.104]			—	—	—	5767117-4	5767119-4	1-5767119-1
190	**76.20** 3.000	**73.61** 2.898	**62.23** 2.450	4	**50.80** 2.000	**1.35** [.053]	SnPb	Gold	1-767007-2●	1-767111-2●	767111-5●	767116-5●	767118-5●	1-767118-2●
						2.72 [.107]		PdNi	767056-5●	—	—	—	—	—
						2.64 [.104]			—	—	—	767117-5●	767119-5●	1-767119-2●
						1.35 [.053]	Pb-free	Gold	1-5767007-2	1-5767111-2	5767111-5	5767116-5	5767118-5	1-5767118-2
						2.72 [.107]		PdNi	5767056-5	—	—	—	—	—
						2.64 [.104]			—	—	—	5767117-5	5767119-5	1-5767119-2
228	**88.90** 3.500	**86.31** 3.398	**74.93** 2.950	5	**63.50** 2.500	**1.35** [.053]	SnPb	Gold	1-767007-3●	—	—	767116-6●	—	—
						2.72 [.107]		PdNi	767056-6●	—	—	—	—	—
						2.64 [.104]			—	—	—	767117-6●	—	—
						1.35 [.053]	Pb-free	Gold	1-5767007-3	—	—	5767116-6	—	—
						2.72 [.107]		PdNi	5767056-6	—	—	—	—	—
						2.64 [.104]			—	—	—	5767117-6	—	—
266	**101.60** 4.000	**99.01** 3.898	**87.63** 3.450	6	**76.20** 3.000	**1.35** [.053]	SnPb	Gold	1-767007-4●	—	—	767116-7●	—	—
						2.72 [.107]		PdNi	767056-7●	—	—	—	—	—
						2.64 [.104]			—	—	—	767117-7●	—	—
						1.35 [.053]	Pb-free	Gold	1-5767007-4	—	—	5767116-7	—	—
						2.72 [.107]		PdNi	5767056-7	—	—	—	—	—
						2.64 [.104]			—	—	—	5767117-7	—	—

Notes: 1. Contact Product Engineering regarding options not present in this table.
2. T&R vacuum caps are placed on some connectors to allow them to be picked up with robotic placement equipment that uses vacuum pick-up nozzles.

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant; ● Indicates "5 of 6 compliant" (lead in solderable interface only).

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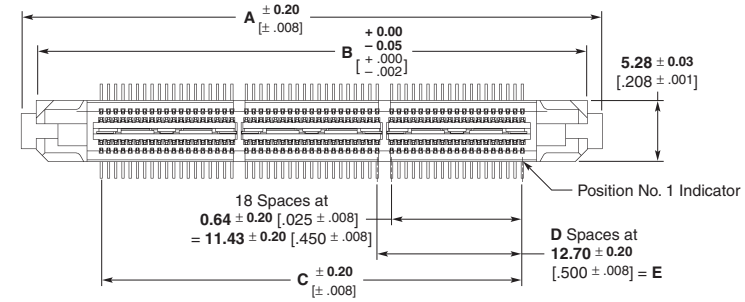
MICTOR Vertical Plugs (Continued)

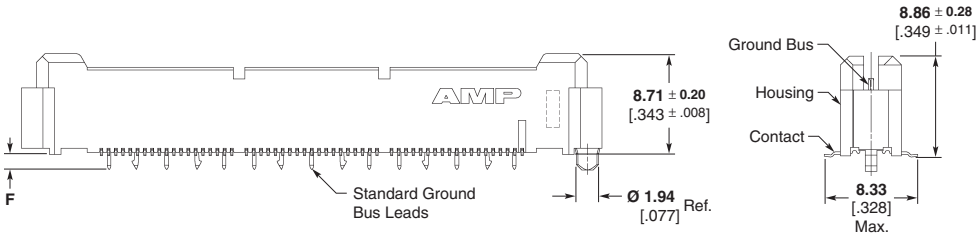
9.00 [.354] Stacking Height*

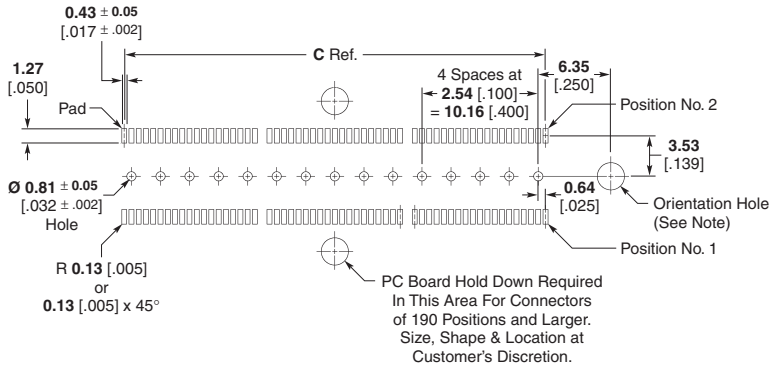
Related Product Data

Material and Finish — page 16
Performance Characteristics — page 16
Mating Receptacles — pages 36-41
Technical Documents — page 81

* 9.00 [.354] stack height when mated to vertical receptacle; 18.00 [.709] stack height when mated to vertical receptacle (extended height).







Recommended PC Board Layout
(Viewed from Connector Side)

Note: For standard applications, the orientation hole must be 2.39±0.05 [.094±.002]; For slip-fit applications, the orientation hole must be 2.00±0.03 [.079±.001].

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MICTOR Vertical Plugs (Continued)

9.00 [.354]
Stacking Height (Continued)

No. of Pos.	Dimensions						Platings		Part Numbers
	A	B	C	D	E	F	Solder Tail	Contact	Barbed G/B Leads / Tube
38	**25.40** 1.000	**22.81** .898	**11.43** .450	0	—	**1.52** [.060]	SnPb	Gold	767139-1●
						2.74 [.108]		PdNi	767140-1●
						1.52 [.060]	Pb-free	Gold	5767139-1
						2.74 [.108]		PdNi	5767140-1
76	**38.10** 1.500	**31.70** 1.248	**24.13** .950	1	**12.70** .500	**1.52** [.060]	SnPb	Gold	767139-2●
						2.74 [.108]		PdNi	767140-2●
						1.52 [.060]	Pb-free	Gold	5767139-2
						2.74 [.108]		PdNi	5767140-2
114	**50.80** 2.000	**48.21** 1.898	**36.83** 1.450	2	**25.40** 1.000	**1.52** [.060]	SnPb	Gold	767139-3●
						2.74 [.108]		PdNi	767140-3●
						1.52 [.060]	Pb-free	Gold	5767139-3
						2.74 [.108]		PdNi	5767140-3
152	**63.50** 2.500	**60.91** 2.398	**49.53** 1.950	3	**38.10** 1.500	**1.52** [.060]	SnPb	Gold	767139-4●
						2.74 [.108]		PdNi	767140-4●
						1.52 [.060]	Pb-free	Gold	5767139-4
						2.74 [.108]		PdNi	5767140-4
190	**76.20** 3.000	**73.61** 2.898	**62.23** 2.450	4	**50.80** 2.000	**1.52** [.060]	SnPb	Gold	767139-5●
						2.74 [.108]		PdNi	767140-5●
						1.52 [.060]	Pb-free	Gold	5767139-5
						2.74 [.108]		PdNi	5767140-5
228	**88.90** 3.500	**86.31** 3.398	**74.93** 2.950	5	**63.50** 2.500	**1.52** [.060]	SnPb	Gold	767139-6●
						2.74 [.108]		PdNi	767140-6●
						1.52 [.060]	Pb-free	Gold	5767139-6
						2.74 [.108]		PdNi	5767140-6
266	**101.60** 4.000	**99.01** 3.898	**87.63** 3.450	6	**76.20** 3.000	**1.52** [.060]	SnPb	Gold	767139-7●
						2.74 [.108]		PdNi	767140-7●
						1.52 [.060]	Pb-free	Gold	5767139-7
						2.74 [.108]		PdNi	5767140-7

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant;
● Indicates "5 of 6 compliant" (lead in solderable interface only).

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UK: 44-8706-080-208

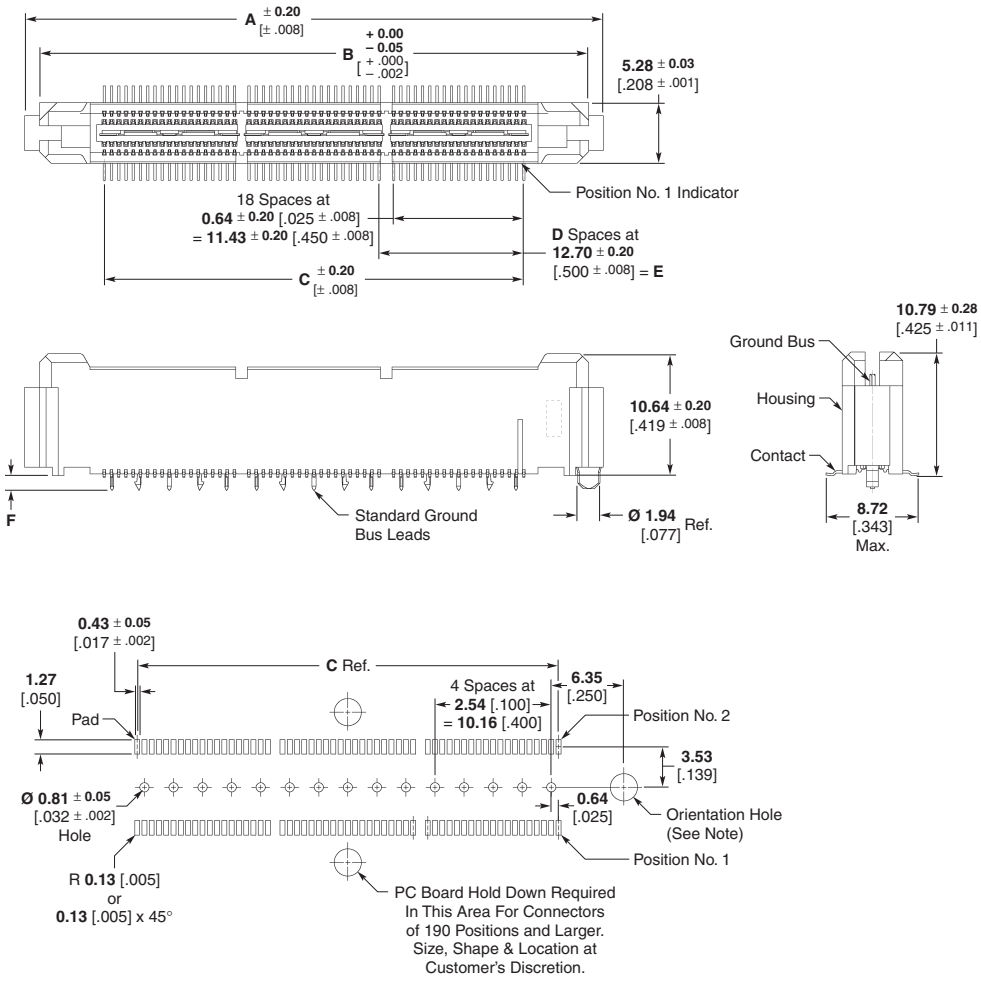
MICTOR Vertical Plugs (Continued)

11.00 [.430] Stacking Height*

Related Product Data

Material and Finish — page 16
Performance Characteristics — page 16
Mating Receptacles — pages 36-41
Technical Documents — page 81

* 11.00 [.430] stack height when mated to vertical receptacle; 19.94 [.785] stack height when mated to vertical receptacle (extended height).



Recommended PC Board Layout
(Viewed from Connector Side)

Note: For standard applications, the orientation hole must be 2.39±0.05 [.094±.002]; For slip-fit applications, the orientation hole must be 2.00±0.03 [.079±.001].

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MICTOR Vertical Plugs (Continued)

11.00 [.430]
Stacking Height (Continued)

No. of Pos.	Dimensions A	B	C	D	E	F	Platings Solder Tail	Contact	Part Numbers Barbed G/B Leads Tube	T&R Vacuum Caps With	T&R Vacuum Caps Without	Barbless G/B Leads Tube	T&R Vacuum Caps With
38	**25.40** 1.000	**22.81** .898	**11.43** .450	0	—	**1.52** [.060]	SnPb	Gold	767003-9●	767123-8●	767123-1●	—	—
						2.64 [.104]		PdNi	767087-1●	—	—	—	—
						1.52 [.060]	Pb-free	Gold	5767003-9	5767123-8	5767123-1	—	—
						2.64 [.104]		PdNi	5767087-1	—	—	—	—
76	**38.10** 1.500	**31.70** 1.248	**24.13** .950	1	**12.70** .500	**1.52** [.060]	SnPb	Gold	1-767003-0●	767123-9●	767123-2●	—	—
						2.64 [.104]		PdNi	767087-2●	—	—	—	—
						1.52 [.060]	Pb-free	Gold	1-5767003-0	5767123-9	5767123-2	—	—
						2.64 [.104]		PdNi	5767087-2	—	—	—	—
114	**50.80** 2.000	**48.21** 1.898	**36.83** 1.450	2	**25.40** 1.000	**1.52** [.060]	SnPb	Gold	1-767003-1●	1-767123-0●	767123-3●	1-767182-3●	1-767183-0●
						2.64 [.104]		PdNi	767087-3●	—	—	—	—
						1.52 [.060]	Pb-free	Gold	1-5767003-1	1-5767123-0	5767123-3	1-5767182-3	1-5767183-0
						2.64 [.104]		PdNi	5767087-3	—	—	—	—
152	**63.50** 2.500	**60.91** 2.398	**49.53** 1.950	3	**38.10** 1.500	**1.52** [.060]	SnPb	Gold	767003-8●	—	—	—	—
						2.64 [.104]		PdNi	767087-4●	—	—	—	—
						1.52 [.060]	Pb-free	Gold	5767003-8	—	—	—	—
						2.64 [.104]		PdNi	5767087-4	—	—	—	—
190	**76.20** 3.000	**73.61** 2.898	**62.23** 2.450	4	**50.80** 2.000	**1.52** [(.060]	SnPb	Gold	1-767003-2●	1-767123-2●	767123-5●	—	—
						2.64 [.104]		PdNi	767087-5●	—	—	—	—
						1.52 [.060]	Pb-free	Gold	1-5767003-2	1-5767123-2	5767123-5	—	—
						2.64 [.104]		PdNi	5767087-5	—	—	—	—
228	**88.90** 3.500	**86.31** 3.398	**74.93** 2.950	5	**63.50** 2.500	**1.52** [.060]	SnPb	Gold	1-767003-3●	—	—	—	—
						2.64 [.104]		PdNi	767087-6●	—	—	—	—
						1.52 [.060]	Pb-free	Gold	1-5767003-3	—	—	—	—
						2.64 [.104]		PdNi	5767087-6	—	—	—	—
266	**101.60** 4.000	**99.01** 3.898	**87.63** 3.450	6	**76.20** 3.000	**1.52** [.060]	SnPb	Gold	1-767003-4●	—	—	—	—
						2.64 [.104]		PdNi	767087-7●	—	—	—	—
						1.52 [.060]	Pb-free	Gold	1-5767003-4	—	—	—	—
						2.64 [.104]		PdNi	5767087-7	—	—	—	—

Note: Contact Product Engineering regarding options not present in this table.

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant;
● Indicates "5 of 6 compliant" (lead in solderable interface only).

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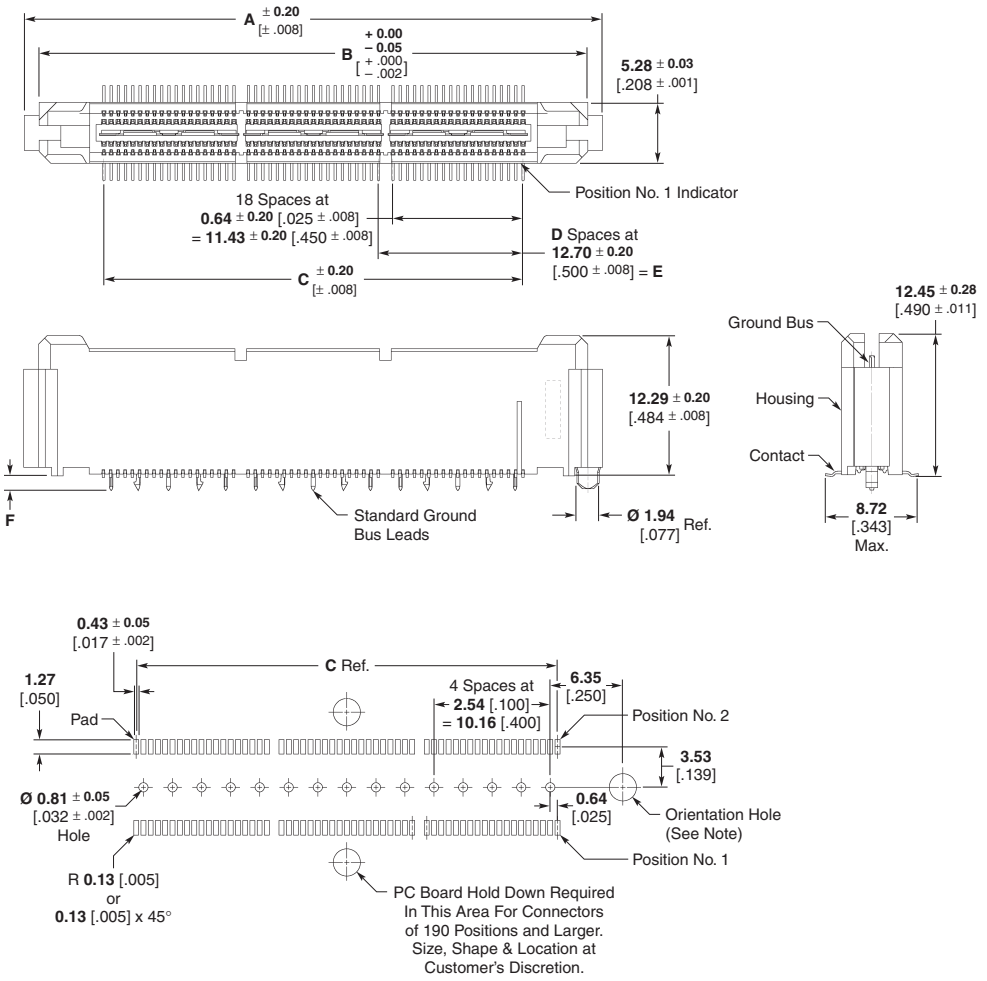
MICTOR Vertical Plugs (Continued)

12.57 [.495] Stacking Height*

Related Product Data

Material and Finish — page 16
Performance Characteristics — page 16
Mating Receptacles — pages 36-41
Technical Documents — page 81

* 12.57 [.495] stack height when mated to vertical receptacle; 21.59 [.850] stack height when mated to vertical receptacle (extended height).



Recommended PC Board Layout
(Viewed from Connector Side)

Note: For standard applications, the orientation hole must be 2.39±0.05 [.094±.002]; For slip-fit applications, the orientation hole must be 2.00±0.03 [.079±.001].

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MICTOR Vertical Plugs (Continued)

12.57 [.495]
Stacking Height (Continued)

No. of Pos.	Dimensions A	B	C	D	E	F	Platings Solder Tail	Contact	Part Numbers: Barbed G/B Leads Tube	Barbed G/B Leads T&R Vacuum Caps With	Barbed G/B Leads T&R Vacuum Caps Without	Barbless G/B Leads Tube	Barbless G/B Leads T&R Vacuum Caps With	Barbless G/B Leads T&R Vacuum Caps Without
38	**25.40** 1.000	**22.81** .898	**11.43** .450	0	—	**1.52** [.060]	SnPb	Gold	767005-8●	767149-1●	767149-8●	767120-1●	767121-1●	767121-8●
						2.64 [.104]		PdNi	767057-1●	—	—	767082-1●	—	—
						1.52 [.060]	Pb-free	Gold	5767005-8	5767149-1	5767149-8	5767120-1	5767121-1	5767121-8
						2.64 [.104]		PdNi	5767057-1	—	—	5767082-1	—	—
76	**38.10** 1.500	**31.70** 1.248	**24.13** .950	1	**12.70** .500	**1.52** [.060]	SnPb	Gold	767005-9●	767149-2●	767149-9●	767120-2●	767121-2●	767121-9●
						2.64 [.104]		PdNi	767057-2●	—	—	767082-2●	—	—
						1.52 [.060]	Pb-free	Gold	5767005-9	5767149-2	5767149-9	5767120-2	5767121-2	5767121-9
						2.64 [.104]		PdNi	5767057-2	—	—	5767082-2	—	—
114	**50.80** 2.000	**48.21** 1.898	**36.83** 1.450	2	**25.40** 1.000	**1.52** [.060]	SnPb	Gold	1-767005-0●	767149-3●	1-767149-0●	767120-3●	767121-3●	1-767121-0●
						2.64 [.104]		PdNi	767057-3●	—	—	767082-3●	—	—
						1.52 [.060]	Pb-free	Gold	1-5767005-0	5767149-3	1-5767149-0	5767120-3	5767121-3	1-5767121-0
						2.64 [.104]		PdNi	5767057-3	—	—	5767082-3	—	—
152	**63.50** 2.500	**60.91** 2.398	**49.53** 1.950	3	**38.10** 1.500	**1.52** [.060]	SnPb	Gold	1-767005-1●	767149-4●	1-767149-1●	767120-4●	767121-4●	1-767121-1●
						2.64 [.104]		PdNi	767057-4●	—	—	767082-4●	767127-4●	1-767127-1●
						1.52 [.060]	Pb-free	Gold	1-5767005-1	5767149-4	1-5767149-1	5767120-4	5767121-4	1-5767121-1
						2.64 [.104]		PdNi	5767057-4	—	—	5767082-4	5767127-4	1-5767127-1
190	**76.20** 3.000	**73.61** 2.898	**62.23** 2.450	4	**50.80** 2.000	**1.52** [.060]	SnPb	Gold	1-767005-2●	767149-5●	1-767149-2●	767120-5●	—	—
						2.64 [.104]		PdNi	767057-5●	—	—	767082-5●	767127-5●	1-767121-2●
						1.52 [.060]	Pb-free	Gold	1-5767005-2	5767149-5	1-5767149-2	5767120-5	—	—
						2.64 [.104]		PdNi	5767057-5	—	—	5767082-5	5767127-5	1-5767121-2
228	**88.90** 3.500	**86.31** 3.398	**74.93** 2.950	5	**63.50** 2.500	**1.52** [.060]	SnPb	Gold	1-767005-3●	—	—	767120-6●	—	—
						2.64 [.104]		PdNi	767057-6●	—	—	767082-6●	—	—
						1.52 [.060]	Pb-free	Gold	1-5767005-3	—	—	5767120-6	—	—
						2.64 [.104]		PdNi	5767057-6	—	—	5767082-6	—	—
266	**101.60** 4.000	**99.01** 3.898	**87.63** 3.450	6	**76.20** 3.000	**1.52** [.060]	SnPb	Gold	1-767005-4●	—	—	767120-7●	—	—
						2.64 [.104]		PdNi	767057-7●	—	1-767151-4●	767082-7●	—	—
						1.52 [.060]	Pb-free	Gold	1-5767005-4	—	—	5767120-7	—	—
						2.64 [.104]		PdNi	5767057-7	—	1-5767151-4	5767082-7	—	—

Note: Contact Product Engineering regarding options not present in this table.

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant;
● Indicates "5 of 6 compliant" (lead in solderable interface only).

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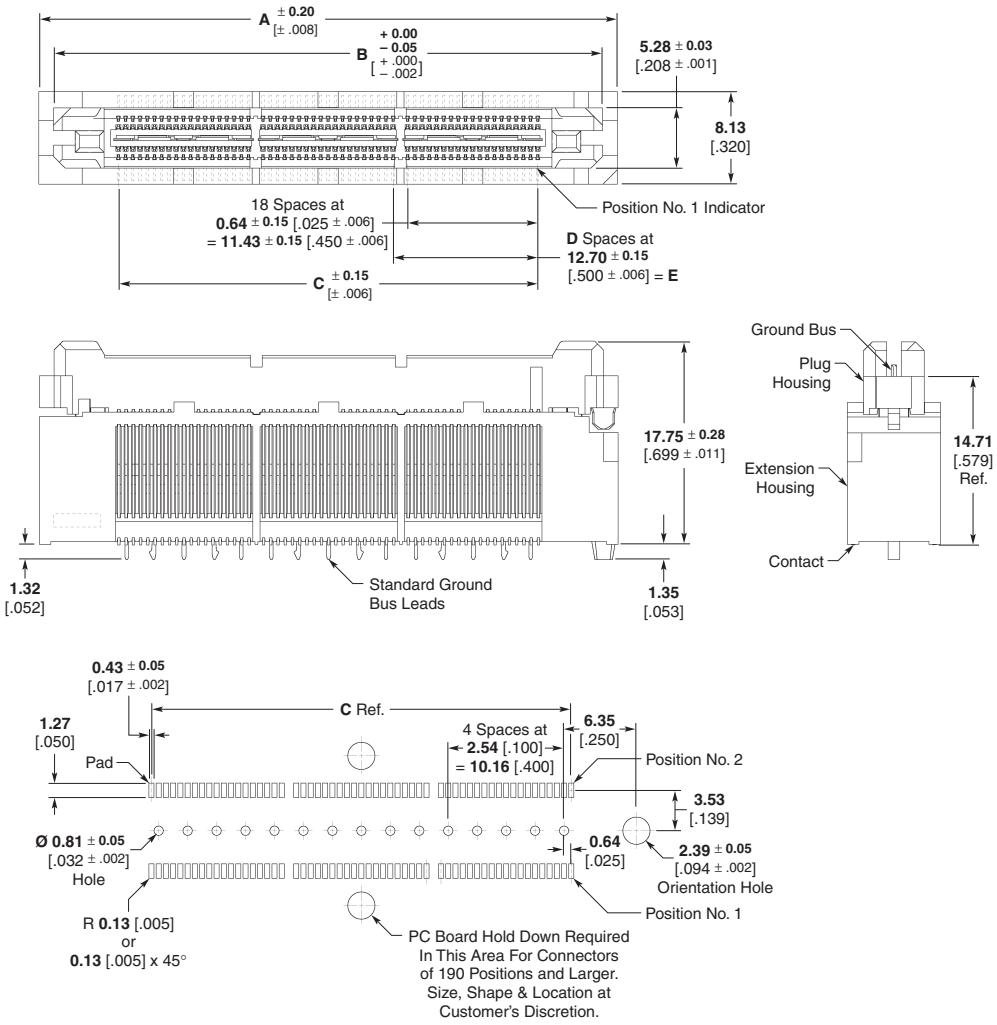
MICTOR Vertical Plugs (Continued)

17.96 [.707] Stacking Height*

Related Product Data

Material and Finish — page 16
Performance Characteristics — page 16
Mating Receptacles — pages 36-41
Technical Documents — page 81

* 17.96 [.707] stack height when mated to vertical receptacle; 27.00 [1.062] stack height when mated to vertical receptacle (extended height).



Recommended PC Board Layout
(Connector Side of Board Shown)

Notes: 1. For dual application, the orientation hole must be 1.98±0.03 [.078±.001]. See Application Specification 114-11004 for details.
2. Connectors with extended ground bus leads can be made available, consult Tyco Electronics.

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MICTOR Vertical Plugs (Continued)

17.96 [.707]
Stacking Height (Continued)

No. of Pos.	Dimensions					Plating	Part Numbers
	A	B	C	D	E		
38	**25.40** 1.000	**22.81** .898	**11.43** .450	0	**0.00** .000	SnPb	767025-1●
						Pb-free	5767025-1
76	**38.10** 1.500	**35.51** 1.398	**24.13** .950	1	**12.70** .500	SnPb	767025-2●
						Pb-free	5767025-2
114	**50.80** 2.000	**48.21** 1.898	**36.83** 1.450	2	**25.40** 1.000	SnPb	767025-3●
						Pb-free	5767025-3
152	**63.50** 2.500	**60.91** 2.398	**49.53** 1.950	3	**38.10** 1.500	SnPb	767025-4●
						Pb-free	5767025-4
190	**76.20** 3.000	**73.61** 2.898	**62.23** 2.450	4	**50.80** 2.000	SnPb	767025-5●
						Pb-free	5767025-5
228	**88.90** 3.500	**86.31** 3.398	**74.93** 2.950	5	**63.50** 2.500	SnPb	767025-6●
						Pb-free	5767025-6
266	**101.60** 4.000	**99.00** 3.898	**87.63** 3.450	6	**76.20** 3.000	SnPb	767025-7●
						Pb-free	5767025-7

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant;
● Indicates "5 of 6 compliant" (lead in solderable interface only).

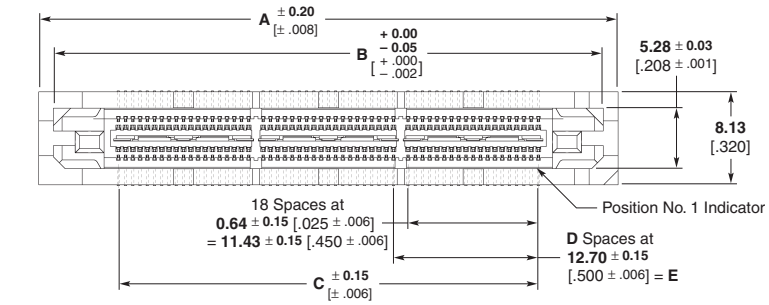
MICTOR Vertical Plugs (Continued)

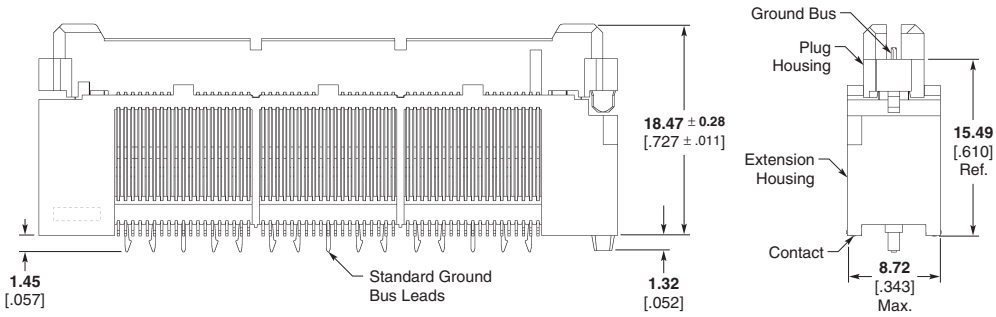
18.75 [.738] Stacking Height*

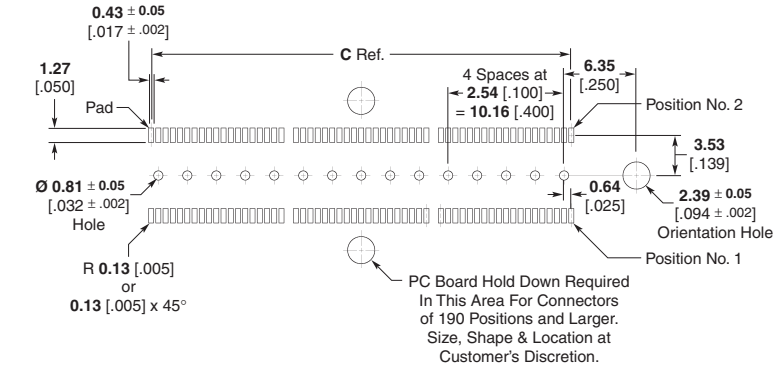
Related Product Data

Material and Finish — page 16
Performance Characteristics — page 16
Mating Receptacles — pages 36-41
Technical Documents — page 81

* 18.75 [.738] stack height when mated to vertical receptacle; 27.80 [1.093] stack height when mated to vertical receptacle (extended height).







Recommended PC Board Layout
(Connector Side of Board Shown)

No. of Pos.	Dimensions					Plating	Part Numbers
	A	B	C	D	E		
38	**25.40** 1.000	**22.81** .898	**11.43** .450	0	**0.00** .000	SnPb	767042-1●
						Pb-free	5767042-1
76	**38.10** 1.500	**35.51** 1.398	**24.13** .950	1	**12.70** .500	SnPb	767042-2●
						Pb-free	5767042-2
114	**50.80** 2.000	**48.21** 1.898	**36.83** 1.450	2	**25.40** 1.000	SnPb	767042-3●
						Pb-free	5767042-3
152	**63.50** 2.500	**60.91** 2.398	**49.53** 1.950	3	**38.10** 1.500	SnPb	767042-4●
						Pb-free	5767042-4
190	**76.20** 3.000	**73.61** 2.898	**62.23** 2.450	4	**50.80** 2.000	SnPb	767042-5●
						Pb-free	5767042-5
228	**88.90** 3.500	**86.31** 3.398	**74.93** 2.950	5	**63.50** 2.500	SnPb	767042-6●
						Pb-free	5767042-6
266	**101.60** 4.000	**99.00** 3.898	**87.63** 3.450	6	**76.20** 3.000	SnPb	767042-7●
						Pb-free	5767042-7

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant; ● Indicates "5 of 6 compliant" (lead in solderable interface only).

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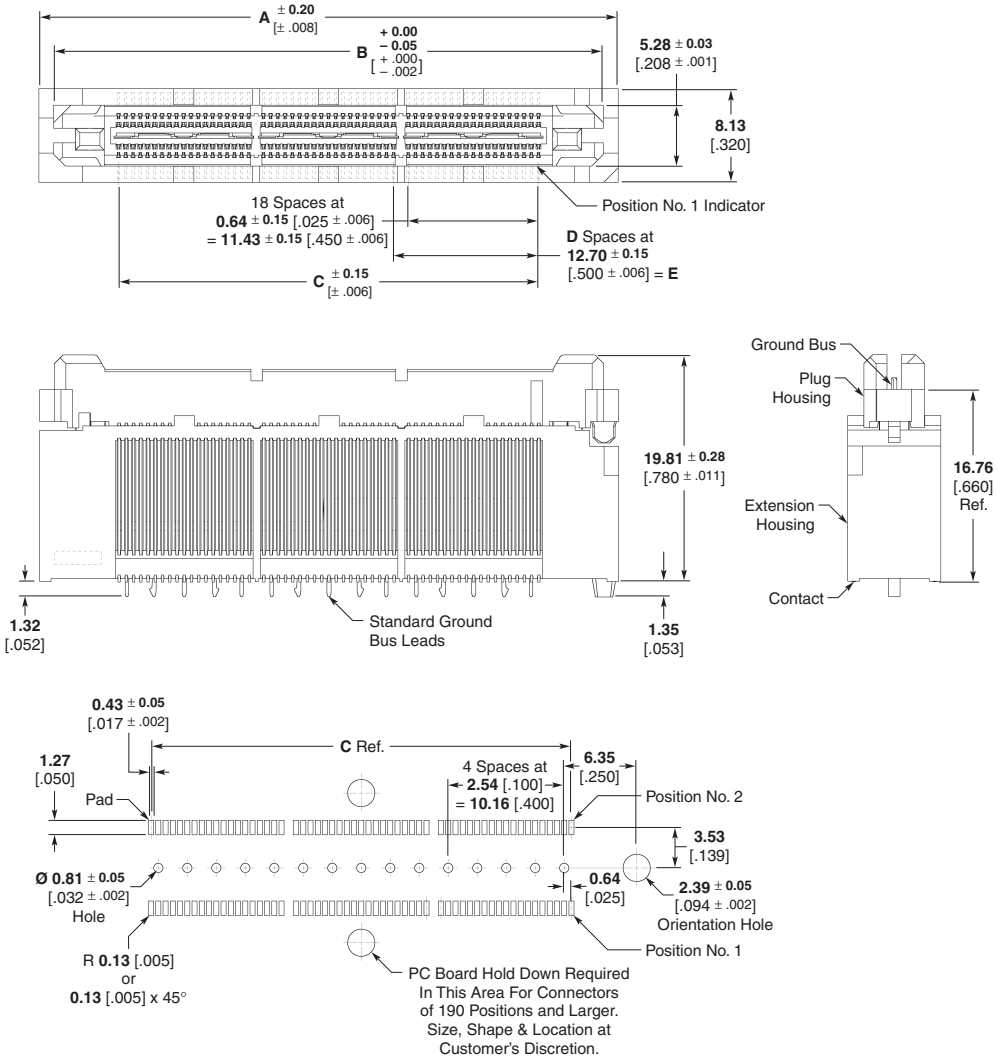
MICTOR Vertical Plugs (Continued)

20.00 [.785] Stacking Height*

Related Product Data

Material and Finish — page 16
Performance Characteristics — page 16
Mating Receptacles — pages 36-41
Technical Documents — page 81

* 20.02 [.788] stack height when mated to vertical receptacle; 29.00 [1.143] stack height when mated to vertical receptacle (extended height).



Recommended PC Board Layout
(Connector Side of Board Shown)

Notes: 1. For dual application, the orientation hole must be 1.98±0.03 [.078±.001]. See Application Specification 114-11004 for details.
2. Connectors with extended ground bus leads can be made available, consult Tyco Electronics.

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MICTOR Vertical Plugs (Continued)

20.00 [.785] Stacking Height (Continued)

No. of Pos.	Dimensions					Plating	Part Numbers
	A	B	C	D	E		
38	**25.40** 1.000	**22.81** .898	**11.43** .450	0	**0.00** .000	SnPb	767032-1●
						Pb-free	5767032-1
76	**38.10** 1.500	**35.51** 1.398	**24.13** .950	1	**12.70** .500	SnPb	767032-2●
						Pb-free	5767032-2
114	**50.80** 2.000	**48.21** 1.898	**36.83** 1.450	2	**25.40** 1.000	SnPb	767032-3●
						Pb-free	5767032-3
152	**63.50** 2.500	**60.91** 2.398	**49.53** 1.950	3	**38.10** 1.500	SnPb	767032-4●
						Pb-free	5767032-4
190	**76.20** 3.000	**73.61** 2.898	**62.23** 2.450	4	**50.80** 2.000	SnPb	767032-5●
						Pb-free	5767032-5
228	**88.90** 3.500	**86.31** 3.398	**74.93** 2.950	5	**63.50** 2.500	SnPb	767032-6●
						Pb-free	5767032-6
266	**101.60** 4.000	**99.00** 3.898	**87.63** 3.450	6	**76.20** 3.000	SnPb	767032-7●
						Pb-free	5767032-7

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant; ● Indicates "5 of 6 compliant" (lead in solderable interface only).

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C. America: 52-55-1106-0803

South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-8706-080-208

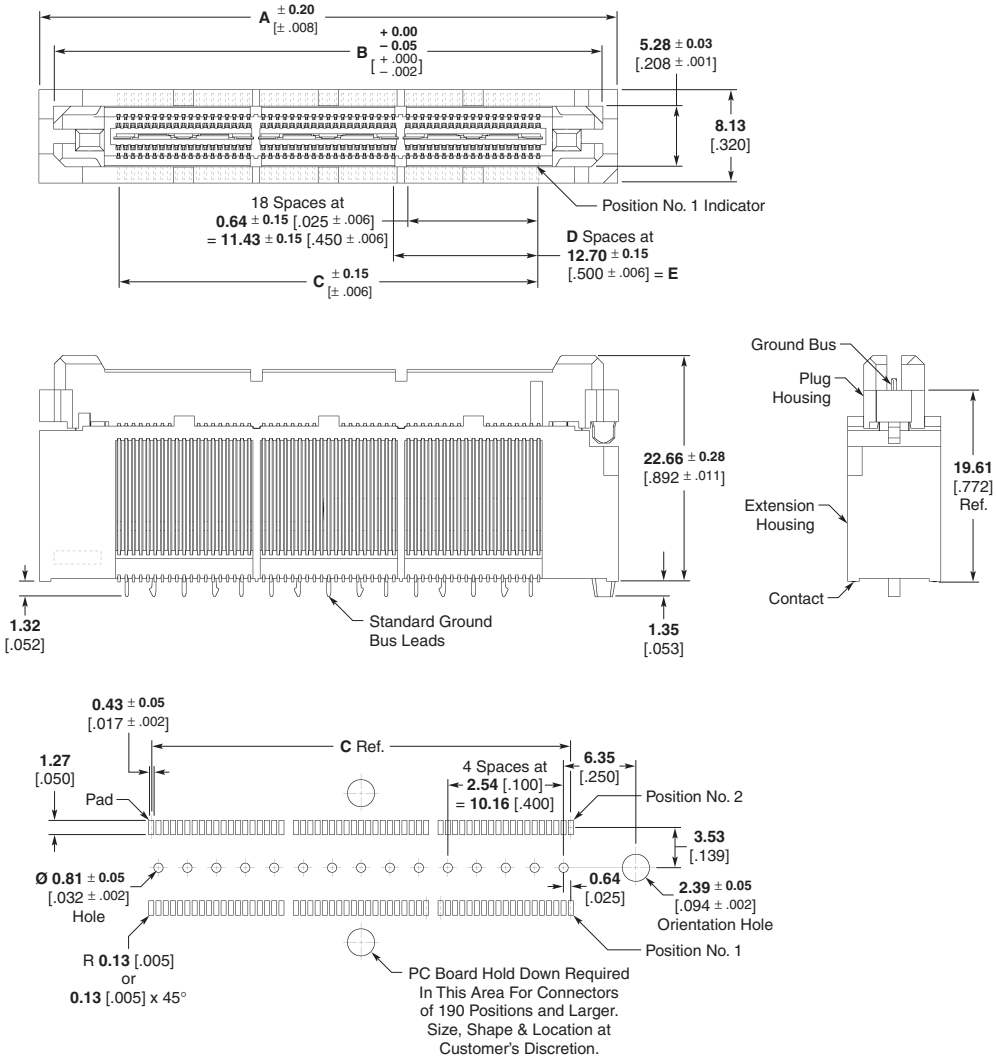
MICTOR Vertical Plugs (Continued)

22.86 [.900] Stacking Height*

Related Product Data

Material and Finish — page 16
Performance Characteristics — page 16
Mating Receptacles — pages 36-41
Technical Documents — page 81

* 22.86 [.900] stack height when mated to vertical receptacle; 31.90 [1.255] stack height when mated to vertical receptacle (extended height).



Recommended PC Board Layout
(Connector Side of Board Shown)

Notes: 1. For dual application, the orientation hole must be 1.98±0.03 [.078±.001]. See Application Specification 114-11004 for details.
2. Connectors with extended ground bus leads can be made available, consult Tyco Electronics.

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MICTOR Vertical Plugs (Continued)

22.86 [.900] Stacking Height (Continued)

No. of Pos.	Dimensions					Plating	Part Numbers
	A	B	C	D	E		
38	**25.40** 1.000	**22.81** .898	**11.43** .450	0	**0.00** .000	SnPb	767017-1●
						Pb-free	5767017-1
76	**38.10** 1.500	**35.51** 1.398	**24.13** .950	1	**12.70** .500	SnPb	767017-2●
						Pb-free	5767017-2
114	**50.80** 2.000	**48.21** 1.898	**36.83** 1.450	2	**25.40** 1.000	SnPb	767017-3●
						Pb-free	5767017-3
152	**63.50** 2.500	**60.91** 2.398	**49.53** 1.950	3	**38.10** 1.500	SnPb	767017-4●
						Pb-free	5767017-4
190	**76.20** 3.000	**73.61** 2.898	**62.23** 2.450	4	**50.80** 2.000	SnPb	767017-5●
						Pb-free	5767017-5
228	**88.90** 3.500	**86.31** 3.398	**74.93** 2.950	5	**63.50** 2.500	SnPb	767017-6●
						Pb-free	5767017-6
266	**101.60** 4.000	**99.00** 3.898	**87.63** 3.450	6	**76.20** 3.000	SnPb	767017-7●
						Pb-free	5767017-7

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant;
● Indicates "5 of 6 compliant" (lead in solderable interface only).

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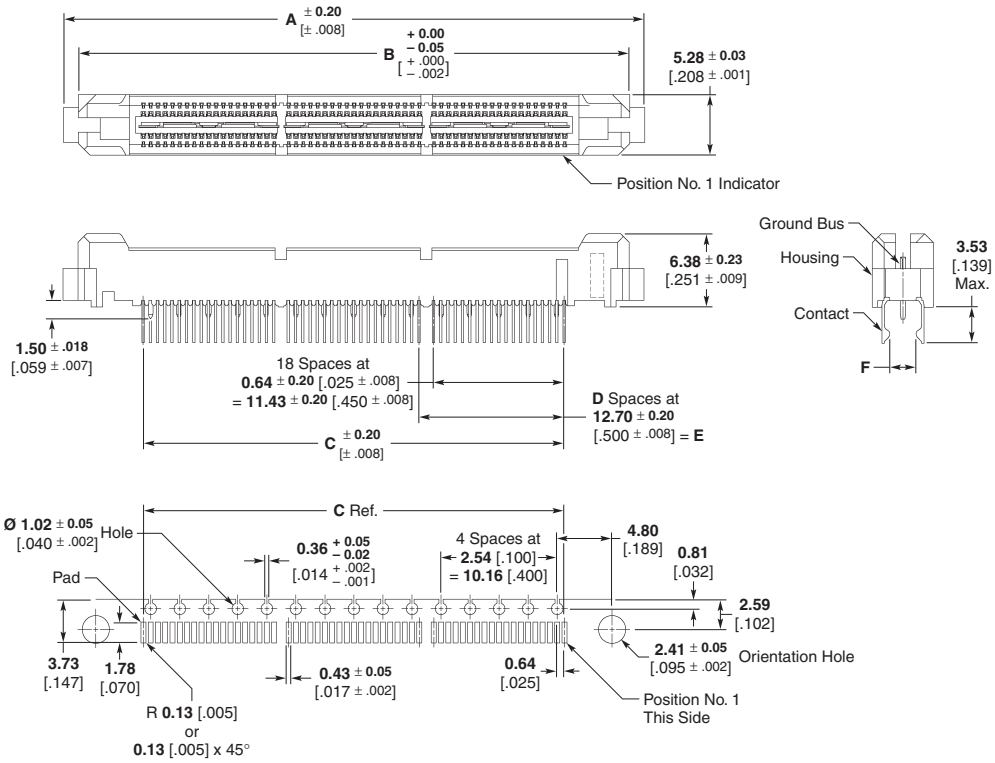
UK: 44-8706-080-208

MICTOR Right-Angle Plugs

Related Product Data

Material and Finish — page 16
Performance Characteristics — page 16
Mating Receptacles — pages 36-41
Technical Documents — page 81



Recommended PC Board Layout
(Mirror Image on Opposite Side)

Catalog 65194
Revised 6-07

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MICTOR Right-Angle Plugs (Continued)

No. of Pos.	Dimensions						Platings		Part Numbers
	A	B	C	D	E	F	Solder Tail	Contact	Tube
38	**25.40** 1.000	**22.81** .898	**11.43** .450	0	**0.00** .000	**1.52** .060	SnPb	Gold	767006-1●
							Pb-free		5767006-1
							SnPb	PdNi	767055-1●
							Pb-free		5767055-1
						2.31 .091	SnPb	PdNi	767039-1●
							Pb-free		5767039-1
76	**38.10** 1.500	**35.51** 1.398	**24.13** .950	1	**12.70** .500	**1.52** .060	SnPb	Gold	767006-2●
							Pb-free		5767006-2
							SnPb	PdNi	767055-2●
							Pb-free		5767055-2
						2.31 .091	SnPb	PdNi	767039-2●
							Pb-free		5767039-2
						2.97 .117	SnPb	PdNi	767170-2●
							Pb-free		5767170-2
114	**50.80** 2.000	**48.21** 1.898	**36.83** 1.450	2	**25.40** 1.000	**1.52** .060	SnPb	Gold	767006-3●
							Pb-free		5767006-3
							SnPb	PdNi	767055-3●
							Pb-free		5767055-3
						2.31 .091	SnPb	PdNi	767039-3●
							Pb-free		5767039-3
152	**63.50** 2.500	**60.91** 2.398	**49.53** 1.950	3	**38.10** 1.500	**1.52** .060	SnPb	Gold	767006-4●
							Pb-free		5767006-4
							SnPb	PdNi	767055-4●
							Pb-free		5767055-4
						2.31 .091	SnPb	PdNi	767039-4●
							Pb-free		5767039-4
190	**76.20** 3.000	**73.61** 2.898	**62.23** 2.450	4	**50.80** 2.000	**1.52** .060	SnPb	Gold	767006-5●
							Pb-free		5767006-5
							SnPb	PdNi	767055-5●
							Pb-free		5767055-5
						2.31 .091	SnPb	PdNi	767039-5●
							Pb-free		5767039-5
228	**88.90** 3.500	**86.31** 3.398	**74.93** 2.950	5	**63.50** 2.500	**1.52** .060	SnPb	Gold	767006-6●
							Pb-free		5767006-6
							SnPb	PdNi	767055-6●
							Pb-free		5767055-6
						2.31 .091	SnPb	PdNi	767039-6●
							Pb-free		5767039-6
266	**101.60** 4.000	**99.00** 3.898	**87.63** 3.450	6	**76.20** 3.000	**1.52** .060	SnPb	Gold	767006-7●
							Pb-free		5767006-7
							SnPb	PdNi	767055-7●
							Pb-free		5767055-7
						2.31 .091	SnPb	PdNi	767039-7●
							Pb-free		5767039-7

S = Printed circuit board thickness connector is intended to be used on.

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● Indicates "5 of 6 compliant" (lead in solderable interface only).

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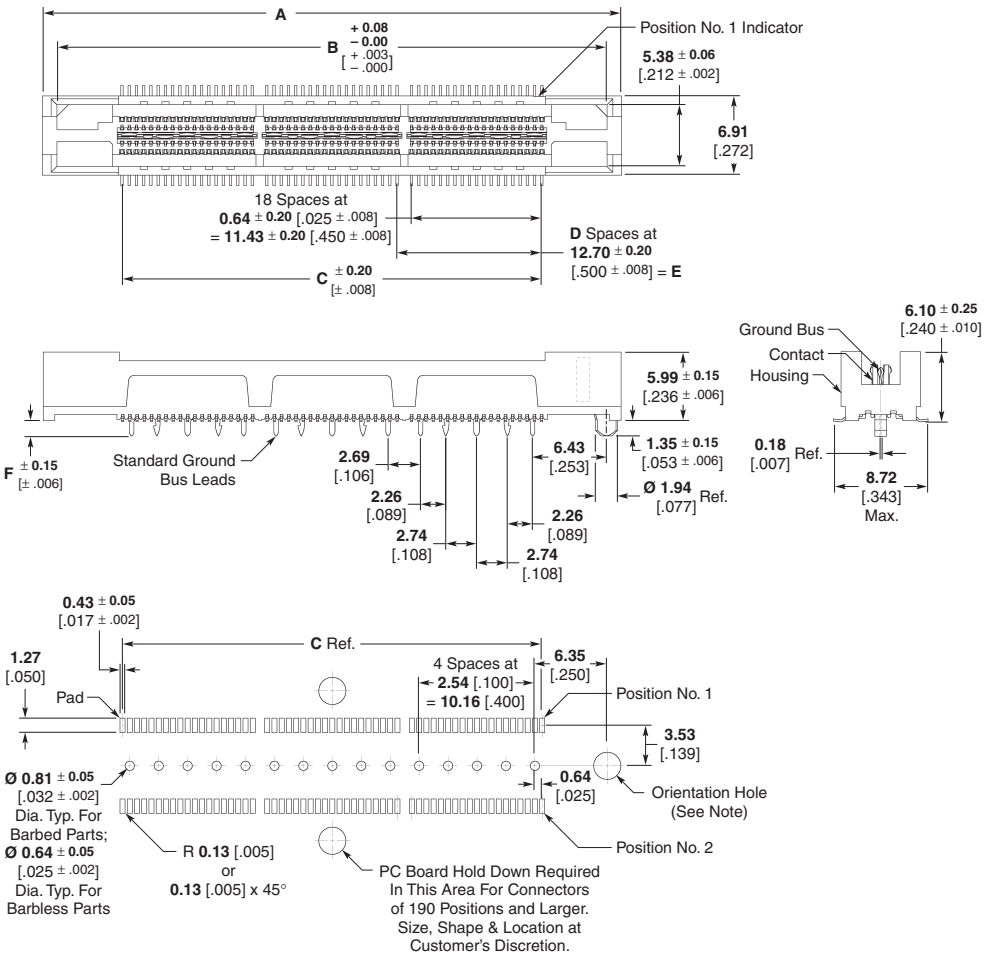
MICTOR Vertical Receptacles

Related Product Data

Material and Finish — page 16
Performance Characteristics — page 16
Mating Plugs — pages 19-35
Technical Documents — page 81



Recommended PC Board Layout
(Connector Side of Board Shown)

Note: For standard applications, orientation hole to be Ø 2.39±0.05 [.094±.002]; For slip-fit applications, orientation hole to be Ø 2.00±0.03 [.079±.001].

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UK: 44-8706-080-208

MICTOR Vertical Receptacles (Continued)

No. of Pos.	Dimensions A	B	C	D	E	F	Platings Solder Tail	Contact	Part Numbers Barbed G/B Leads Tube	Barbed G/B Leads T&R Vacuum Caps With	Barbed G/B Leads T&R Vacuum Caps Without	Barbless G/B Leads Tube	Barbless G/B Leads T&R Vacuum Caps With	Barbless G/B Leads T&R Vacuum Caps Without
38	**25.40** 1.000	**22.86** .900	**11.43** .450	0	—	**1.40** .055	SnPb	Gold	2-767004-2●	767096-8●	767096-1●	767110-1●	767114-1●	767114-8●
								PdNi	767181-1●	—	—	—	—	—
						2.74 .108	SnPb	PdNi	767054-1●	767171-1●	—	767081-1●	767115-1●	—
						1.40 .055	Pb-free	Gold	2-5767004-2	5767096-8	5767096-1	5767110-1	5767114-1	5767114-8●
						2.74 .108	Pb-free	Gold	5767181-1	—	—	—	—	—
								PdNi	5767054-1	5767171-1	—	5767081-1	5767115-1	—
76	**38.10** 1.500	**35.56** 1.400	**24.13** .950	1	**12.70** .500	**1.40** .055	SnPb	Gold	2-767004-3●	767096-9●	767096-2●	767110-2●	767114-2●	767114-9●
								PdNi	767181-2●	—	—	—	—	—
						2.74 .108	SnPb	PdNi	767054-2●	—	—	767081-2●	767115-2●	—
						1.40 .055	Pb-free	Gold	2-5767004-3	5767096-9	5767096-2	5767110-2	5767114-2	5767114-9
						2.74 .108	Pb-free	Gold	5767181-2	—	—	—	—	—
								PdNi	5767054-2	—	—	5767081-2	5767115-2	—
114	**50.80** 2.000	**48.26** 1.900	**36.83** 1.450	2	**25.40** 1.000	**1.40** .055	SnPb	Gold	2-767004-4●	1-767096-0●	767096-3●	767110-3●	767114-3●	1-767114-0●
								PdNi	767181-3●	—	—	—	—	—
						2.74 .108	SnPb	PdNi	767054-3●	—	—	767081-3●	767115-3●	—
						1.40 .055	Pb-free	Gold	2-5767004-4	1-5767096-0	5767096-3	5767110-3	5767114-3	1-5767114-0
						2.74 .108	Pb-free	Gold	5767181-3	—	—	—	—	—
								PdNi	5767054-3	—	—	5767081-3	5767115-3	—
152	**63.50** 2.500	**60.96** 2.400	**49.53** 1.950	3	**38.10** 1.500	**1.40** .055	SnPb	Gold	2-767004-5●	1-767096-1●	767096-4●	767110-4●	767114-4●	1-767114-1●
								PdNi	767181-4●	—	—	—	—	—
						2.74 .108	SnPb	PdNi	767054-4●	—	—	767081-4●	767115-4●	—
						1.40 .055	Pb-free	Gold	2-5767004-5	1-5767096-1	5767096-4	5767110-4	5767114-4	1-5767114-1
						2.74 .108	Pb-free	Gold	5767181-4	—	—	—	—	—
								PdNi	5767054-4	—	—	5767081-4	5767115-4	—
190	**76.20** 3.000	**73.66** 2.900	**62.23** 2.450	4	**50.80** 2.000	**1.40** .055	SnPb	Gold	2-767004-6●	1-767096-2●	767096-5●	767110-5●	767114-5●	1-767114-2●
								PdNi	767181-5●	—	—	—	—	—
						2.74 .108	SnPb	PdNi	767054-5●	—	—	767081-5●	767115-5●	—
						1.40 .055	Pb-free	Gold	2-5767004-6	1-5767096-2	5767096-5	5767110-5	5767114-5	1-5767114-2
						2.74 .108	Pb-free	Gold	5767181-5	—	—	—	—	—
								PdNi	5767054-5	—	—	5767081-5	5767115-5	—
228	**88.90** 3.500	**86.36** 3.400	**74.93** 2.950	5	**63.50** 2.500	**1.40** .055	SnPb	Gold	2-767004-7●	1-767096-3●	—	767110-6●	—	—
								PdNi	767181-6●	—	—	—	—	—
						2.74 .108	SnPb	PdNi	767054-6●	—	—	767081-6●	—	—
						1.40 .055	Pb-free	Gold	2-5767004-7	—	—	5767110-6	—	—
						2.74 .108	Pb-free	Gold	5767181-6	—	—	—	—	—
								PdNi	5767054-6	—	—	5767081-6	—	—
266	**101.60** 4.000	**99.06** 3.900	**87.63** 3.450	6	**76.20** 3.000	**1.40** .055	SnPb	Gold	2-767004-8●	—	—	767110-7●	—	—
								PdNi	767181-7●	—	—	—	—	—
						2.74 .108	SnPb	PdNi	767054-7●	—	—	767081-7●	—	—
						1.40 .055	Pb-free	Gold	2-5767004-8	—	—	5767110-7	—	—
						2.74 .108	Pb-free	Gold	5767181-7	—	—	—	—	—
								PdNi	5767054-7	—	—	5767081-7	—	—

Note: Contact Product Engineering regarding options not present in this table.

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant;
● Indicates "5 of 6 compliant" (lead in solderable interface only).

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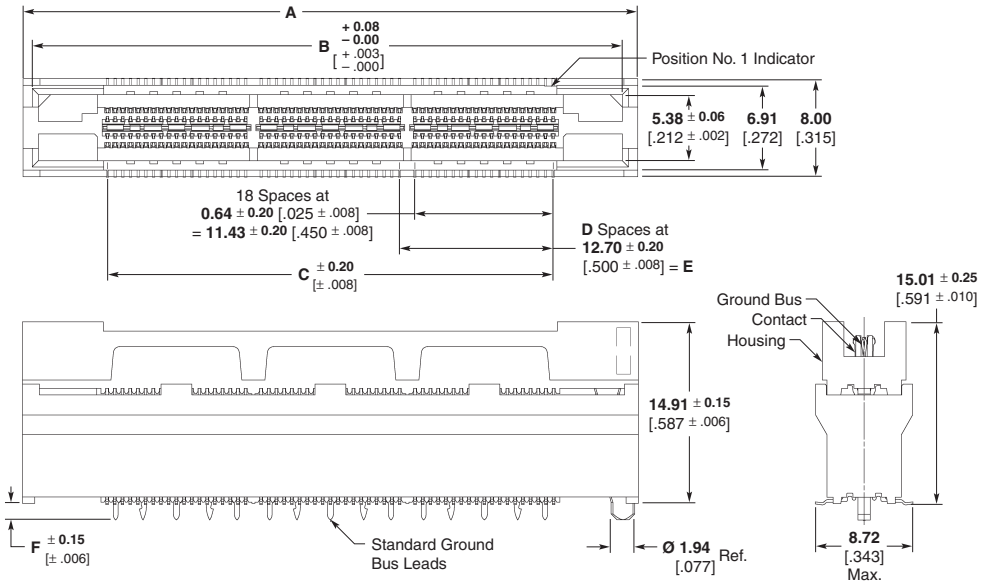
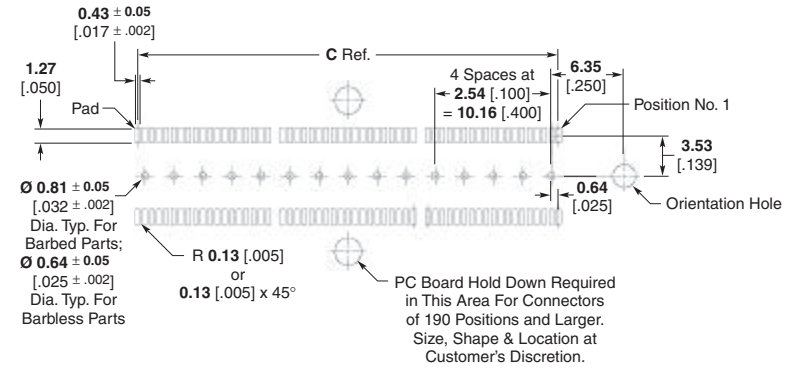
MICTOR Vertical Receptacles (Extended Height)

Related Product Data

Material and Finish — page 16
Performance Characteristics — page 16
Mating Plugs — pages 19-35
Technical Documents — page 81





Recommended PC Board Layout
(Connector Side of Board Shown)

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MICTOR Vertical Receptacles (Extended Height) (Continued)

No. of Pos.	Dimensions A	B	C	D	E	F	Platings Solder Tail	Contact	Part Numbers Barbed G/B Leads Tube	T&R Vacuum Caps With	T&R Vacuum Caps Without	Barbless G/B Leads Tube	T&R Vacuum Caps With	T&R Vacuum Caps Without
38	**25.40** 1.000	**22.86** .900	**11.43** .450	0	—	**1.37** [.054]	SnPb	Gold	767130-1●	767146-1●	767146-8●	—	—	—
						1.37 [.054]		PdNi	767094-1●	767178-1●	767178-8●	—	—	—
						2.72 [.107]			767154-1●	—	767153-8●	767095-1●	—	—
						1.37 [.054]	Pb-free	Gold	5767130-1	5767146-1	5767146-8	—	—	—
						1.37 [.054]		PdNi	5767094-1	5767178-1	1761316-8	—	—	—
						2.72 [.107]			5767154-1	—	5767153-8	5767095-1	—	—
76	**38.10** 1.500	**35.56** 1.400	**24.13** .950	1	**12.70** .500	**1.37** [.054]	SnPb	Gold	767130-2●	767146-2●	767146-9●	—	—	—
						1.37 [.054]		PdNi	767094-2●	767178-2●	—	—	—	—
						2.72 [.107]			767154-2●	—	767153-9●	767095-2●	—	—
						1.37 [.054]	Pb-free	Gold	5767130-2	5767146-2	5767146-9	—	—	—
						1.37 [.054]		PdNi	5767094-2	5767178-2	—	—	—	—
						2.72 [.107]			5767154-2	—	5767153-9	5767095-2	—	—
114	**50.80** 2.000	**48.26** 1.900	**36.83** 1.450	2	**25.40** 1.000	**1.37** [.054]	SnPb	Gold	767130-3●	767146-3●	1-767146-0●	—	—	—
						1.37 [.054]		PdNi	767094-3●	—	—	—	—	—
						2.72 [.107]			767154-3●	—	1-767153-0●	767095-3●	767145-3●	1-767145-0●
						1.37 [.054]	Pb-free	Gold	5767130-3	5767146-3	1-5767146-0	—	—	—
						1.37 [.054]		PdNi	5767094-3	—	—	—	—	—
						2.72 [.107]			5767154-3	—	1-5767153-0	5767095-3	5767145-3	1-5767145-0
152	**63.50** 2.500	**60.96** 2.400	**49.53** 1.950	3	**38.10** 1.500	**1.37** [.054]	SnPb	Gold	767130-4●	767146-4●	1-767146-1●	—	—	—
						1.37 [.054]		PdNi	767094-4●	—	—	—	—	—
						2.72 [.107]			767154-4●	—	1-767153-1●	767095-4●	—	1-767145-1●
						1.37 [.054]	Pb-free	Gold	5767130-4	5767146-4	1-5767146-1	—	—	—
						1.37 [.054]		PdNi	5767094-4	—	—	—	—	—
						2.72 [.107]			5767154-4	—	1-5767153-1	5767095-4	—	1-5767145-1
190	**76.20** 3.000	**73.66** 2.900	**62.23** 2.450	4	**50.80** 2.000	**1.37** [.054]	SnPb	Gold	767130-5●	—	—	—	—	—
						1.37 [.054]		PdNi	767094-5●	767178-5●	1-767178-2●	—	—	—
						2.72 [.107]			767154-5●	—	1-767153-2●	767095-5●	—	—
						1.37 [.054]	Pb-free	Gold	5767130-5	—	—	—	—	—
						1.37 [.054]		PdNi	5767094-5	5767178-5	1-1761316-2	—	—	—
						2.72 [.107]			5767154-5	—	1-5767153-2	5767095-5	—	—
228	**88.90** 3.500	**86.36** 3.400	**74.93** 2.950	5	**63.50** 2.500	**1.37** [.054]	SnPb	Gold	767130-6●	—	—	—	—	—
						1.37 [.054]		PdNi	767094-6●	—	—	—	—	—
						2.72 [.107]			767154-6●	—	1-767153-3●	767095-6●	—	—
						1.37 [.054]	Pb-free	Gold	5767130-6	—	—	—	—	—
						1.37 [.054]		PdNi	5767094-6	—	—	—	—	—
						2.72 [.107]			5767154-6	—	1-5767153-3	5767095-6	—	—
266	**101.60** 4.000	**99.06** 3.900	**87.63** 3.450	6	**76.20** 3.000	**1.37** [.054]	SnPb	Gold	767130-7●	—	—	—	—	—
						1.37 [.054]		PdNi	767094-7●	—	—	—	—	—
						2.72 [.107]			767154-7●	—	1-767153-4●	767095-7●	—	—
						1.37 [.054]	Pb-free	Gold	5767130-7	—	—	—	—	—
						1.37 [.054]		PdNi	5767094-7	—	—	—	—	—
						2.72 [.107]			5767154-7	—	1-5767153-4	5767095-7	—	—

Note: Contact Product Engineering regarding options not present in this table.

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant;
● Indicates "5 of 6 compliant" (lead in solderable interface only).

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Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are standard equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

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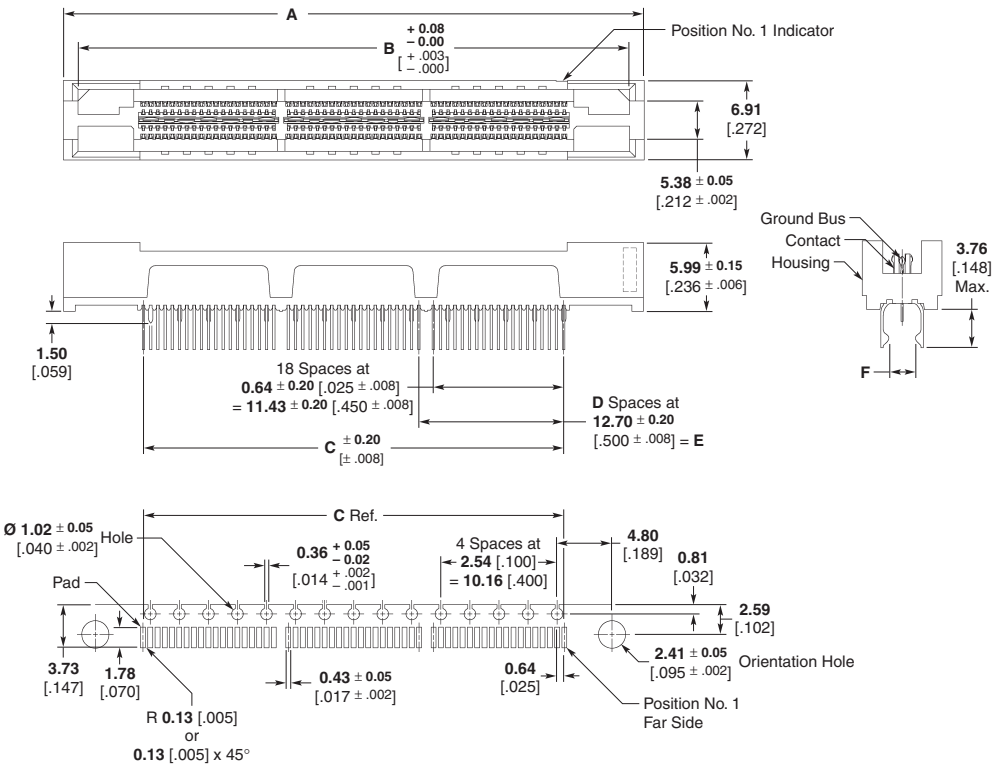
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-8706-080-208

MICTOR Right-Angle Receptacles

Related Product Data

Material and Finish — page 16
Performance Characteristics — page 16
Mating Plugs — pages 19-35
Application Tooling — page 77
Technical Documents — page 81



Recommended PC Board Layout
(Mirror image on opposite side)
PC Board Thickness: 1.57 [.062]

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