



Stacking Height Guide for Parallel Board-to-Board Applications

Stacking Height Guide for Parallel Board-to-Board Applications. Table with columns: Stacking Height (mm/inch), Connector Description, Pitch, and Connector Sizes (No. of Positions) from 10 to 440. Includes rows for .4mm Fine Stack, .5mm Fine Stack, .8mm Fine Stack, .5mm Free Height, etc.

Stacking Height Guide for Parallel Board-to-Board Applications (Continued)

Stacking Height Guide for Parallel Board-to-Board Applications (Continued). Table with columns: Connector Sizes (No. of Positions) from 54 to 440 and rows corresponding to the previous table.



Americas

Argentina - Buenos Aires
Phone: +54-11-4733-2200
Fax: +54-11-4733-2211
Brasil - São Paulo
Phone: +55-11-3611-1311
Fax: +55-11-3611-0397

Canada - Toronto
Phone: +905-475-6222
Fax: +905-474-5520
Product Information Center: (Technical Support)
Phone: +905-470-4425
Fax: +905-474-5525

Mexico - Mexico City
Phone: +52-55-1106-0800
Fax: +52-5-361-8545
United States - Harrisburg, PA
Phone: +717-564-0100
Fax: +717-986-7575
Product Information Center: (Technical Support)
Phone: +800-522-6752
Fax: +717-986-7575

Colombia - Bogota
Phone: +57-1-231-9398
Fax: +57-1-660-0206

For Latin/South American Countries not shown
Phone: +54-11-4733-2015
Fax: +54-11-4733-2083

Asia/Pacific

Australia - Sydney
Phone: +61-2-9554-2600
Fax: +61-2-9502-2556
Product Information Center: (Technical Support)
Phone: +61-2-9840-8200
Fax: +61-2-9634-6188

Japan - Tokyo
Phone: +81-44-844-8111
Fax: +81-44-812-3207
Raychem & Identification Products
Phone: +81-44-844-8183
Fax: +81-44-844-8184
Product Information Center: (Technical Support)
Phone: +81-44-844-8013
Fax: +81-44-812-3200

New Zealand - Auckland
Phone: +64-9-634-4580
Fax: +64-9-634-4586
Philippines - Makati City
Phone: +632-848-0171
Fax: +632-867-8661

Singapore - Singapore
Phone: +65-6482-0311
Fax: +65-6482-1012
Raychem Products
Phone: +65-4866-151
Fax: +65-6545-514
Identification Products
Phone: +65 (0) 6482-0311
Fax: +65 (0) 6481-5514

India - Bangalore
Phone: +91-80-285-40800
Fax: +91-80-285-40820

Hong Kong
Phone: +852-2735-1628
Fax: +852-2735-0243

People's Republic of China
Phone: +86-21-64857333/64850602
Fax: +86-21-64856222/54260190

Taiwan - Taipei
Phone: +886-2-8768-2788
Fax: +886-2-8768-2268

Indonesia - Jakarta
Phone: +65-6482-0311
Fax: +65-6482-1012

Korea - Seoul
Phone: +82-2-3415-4500
Fax: +82-2-3486-3810

Malaysia - Kuala Lumpur
Phone: +60-3-78053055
Fax: +60-3-78053066

Thailand - Bangkok
Phone: +66-2-955-0500
Fax: +66-2-955-0505

Vietnam and Indochina - Ho Chi Minh City
Phone: +84-8 930-5546
Fax: +84-8 930-3443

Europe/Middle East/Africa

Austria - Vienna
Phone: +43-1 90 5 60-0
Fax: +43-1 90 5 60-1333

Germany - Speyer
Phone: +49-6232-30-0
Fax: +49-6232-30-2243

Netherlands - 's-Hertogenbosch
Phone: +31-73-624-62-46
Fax: +31-73-621-23-65

Switzerland - Steinach
Phone: +41-71-447-0447
Fax: +41-71-447-0444

Belgium - Kessel-Lo
Phone: +32-16-35-23-00
Fax: +32-16-35-23-52

Germany - HTS Division - Neunkirchen
Phone: +49-2247-305-0
Fax: +49-2247-305-122

Turkey - Istanbul
Phone: +90-212-281-8181/2/3
Fax: +90-212-281-8184

Bulgaria - Sofia
Phone: +359-2-971-2152
Fax: +359-2-971-2153

Great Britain - Stanmore Middlesex
Phone: +44-8706-080-208
Fax: +44-1793-572-109

Ukraine - Kiev
Phone: +380-044-206-2265
Fax: +380-044-206-2264

Czech Republic - Kurim
Phone: +420-5-41-162-111
Fax: +420-5-41-162-223

Norway - Nesbru
Phone: +47-66-77-8886
Fax: +47-66-77-8855

Poland - Warsaw
Phone: +48-22-45-76-700
Fax: +48-22-45-76-720

For Middle East/African Countries Not Shown
Phone: +33-1-3420-8866
Fax: +33-1-3420-8300

Denmark - Glostrup
Phone: +45-43-480-452
Fax: +45-43-441-414

Great Britain - Raychem & Identification Products
Phone: +44-1793-528171
Fax: +44-1793-572-516

Romania - Bucharest
Phone: +40-21-311-3479/3596
Fax: +40-21-312-0574

Egypt - Cairo
Phone: +20-2-290-42-81
Fax: +20-2-419-23-34

Greece - Athens
Phone: +30-1-9370-396/397
Fax: +30-1-9370-655

Russia - Moscow
Phone: +7-095-926-5506/07/08/09
Fax: +7-095-926-5505

Finland - Helsinki
Phone: +358-95-12-34-20
Fax: +358-95-12-34-250

Hungary - Budapest
Phone: +36-1-289-1000
Fax: +36-1-289-1010

Russia - St. Petersburg
Phone: +7-812-718-8192
Fax: +7-812-718-8193

France - Cergy-Pontoise
Phone: +33-1-3420-8888
Fax: +33-1-3420-8600
Product Information Center: (Technical Support)
Phone: +33-1-3420-8943
Fax: +33-1-3420-8623

Ireland - Dublin
Phone: +353-1-820-3000
Fax: +353-1-820-9790

Slovenia - Ljubljana
Phone: +386-1561-3270
Fax: +386-1561-3240

Germany - Bensheim
Phone: +49-6251-133-0
Fax: +49-6251-133-1600
Product Information Center: (Technical Support)
Phone: +49-6251-133-1999
Fax: +49-6251-133-1988

Israel - Yokneam
Phone: +972-4-959-0508
Fax: +972-4-959-0506

South Africa - Port Elizabeth
Phone: +2741-503-4500
Fax: +2741-581-0440

Germany - Langen
Phone: +49-6103-709-0
Fax: +49-6103-709-1223

Italy - Collegno (Torino)
Phone: +39-011-4012-111
Fax: +39-011-4031116


Spain - Barcelona
Phone: +34-93-291-0330
Fax: +34-93-201-7879
Product Information Center: (Technical Support)
Phone: +34-93-291-0330
Fax: +34-93-200-3779

Lithuania - Vilnius
Phone: +370-5-2131-402
Fax: +370-5-2131-403

Sweden - Upplands Väsby
Phone: +46-8-50-72-50-00
Fax: +46-8-50-72-50-01

**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

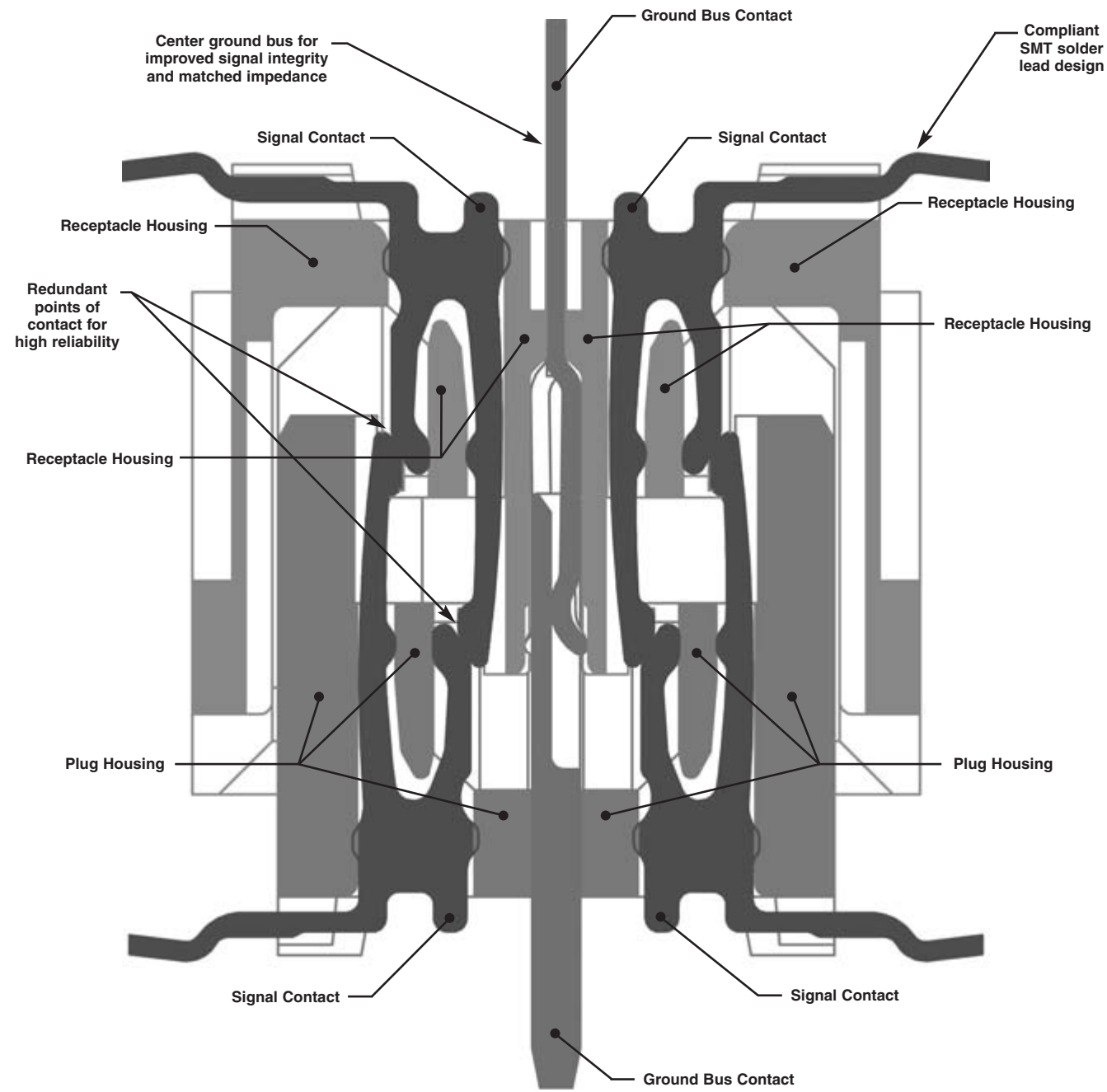
options are available to meet the needs of various applications.

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.

0.635mm MICTOR Connectors

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.

0.635mm MICTOR Connectors



Electronics

Material Specifications

Fine Pitch SMT Stacking Connectors
(Parallel Board-to-Board)



Material and Performance Specifications, MICTOR Connectors

Material

Housing — Liquid crystal polymer, black

Contacts — High reliability copper alloy

Ground Bus — Phosphor bronze

Finish (Gold 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.

Finish (Palladium-Nickel Plating)

Contacts and Ground Bus — 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.; AMP Specification 109-6-1

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

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

Mechanical Characteristics

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

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

Physical Shock — No discontinuities of 1µs or longer duration; AMP 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; AMP Specification 109-27

Contact Retention — 1 lb min.; AMP 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; AMP 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; AMP Specification 109-42

Environmental Characteristics

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

Humidity - Temperature Cycling — Subject mated samples to 10 cycles between +25°C and +65°C at 95% RH; AMP 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; AMP Specification 109-75-1

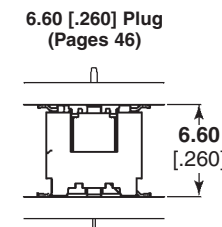
Temperature Life — Subject mated samples to temperature life at +118°C for 792 hours; AMP Specification 109-43

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

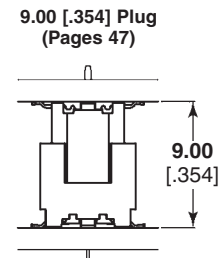
0.635mm MICTOR Connectors

MICTOR Stack Height Combinations

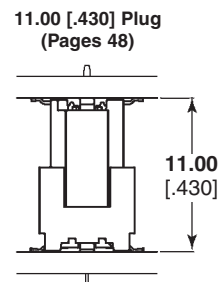
**30µ Gold and Palladium
Nickel Plated Vertical
Connectors**



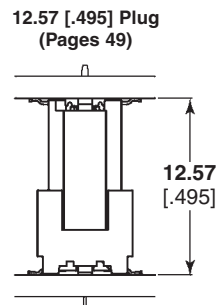
6.60 [.260] Plug
(Pages 46)
Standard Receptacle
(Pages 56 and 57)



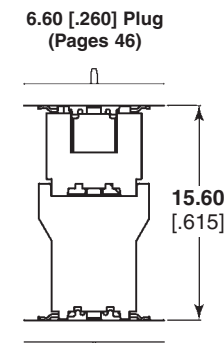
9.00 [.354] Plug
(Pages 47)
Standard Receptacle
(Pages 56 and 57)



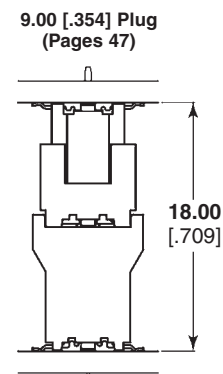
11.00 [.430] Plug
(Pages 48)
Standard Receptacle
(Pages 56 and 57)



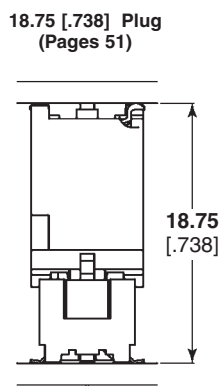
12.57 [.495] Plug
(Pages 49)
Standard Receptacle
(Pages 56 and 57)



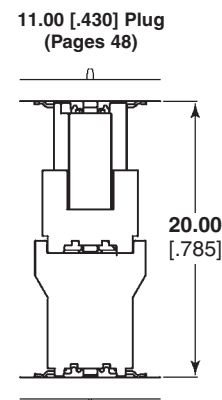
6.60 [.260] Plug
(Pages 46)
Raised Receptacle
(Pages 58 and 59)



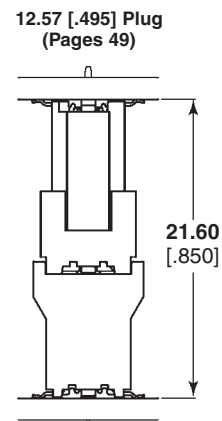
9.00 [.354] Plug
(Pages 47)
Raised Receptacle
(Pages 58 and 59)



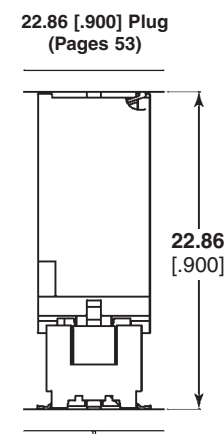
18.75 [.738] Plug
(Pages 51)
Standard Receptacle
(Pages 56 and 57)



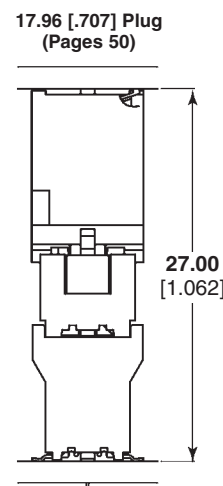
11.00 [.430] Plug
(Pages 48)
Raised Receptacle
(Pages 58 and 59)



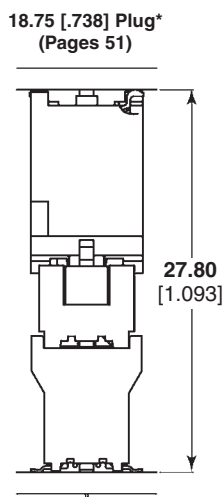
12.57 [.495] Plug
(Pages 49)
Raised Receptacle
(Pages 58 and 59)



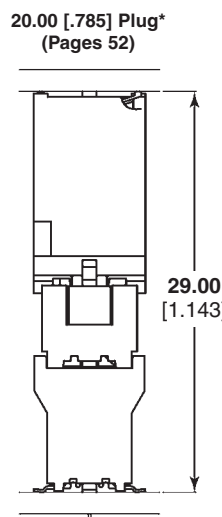
22.86 [.900] Plug
(Pages 53)
Standard Receptacle
(Pages 56 and 57)



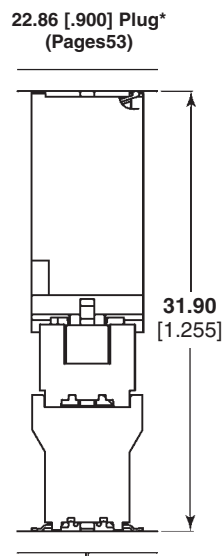
17.96 [.707] Plug
(Pages 50)
Raised Receptacle
(Pages 58 and 59)



18.75 [.738] Plug*
(Pages 51)
Raised Receptacle
(Pages 58 and 59)



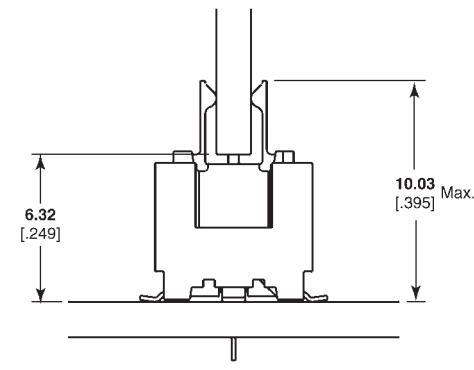
20.00 [.785] Plug*
(Pages 52)
Raised Receptacle
(Pages 58 and 59)



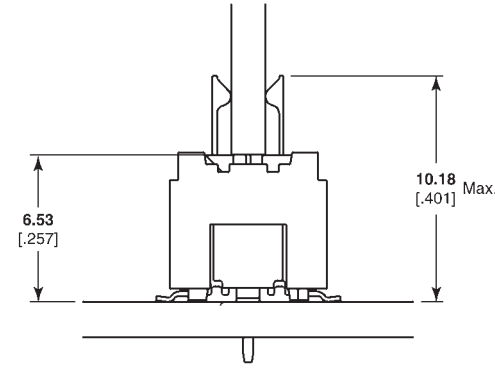
22.86 [.900] Plug*
(Pages 53)
Raised Receptacle
(Pages 58 and 59)

*This connector not available in Palladium Nickel.

MICTOR Right Angle (Straddle Mount) Combinations



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.

0.635mm MICTOR Connectors

MICTOR Vertical Plugs

6.60 [.260] Stacking Height*

Related Product Data

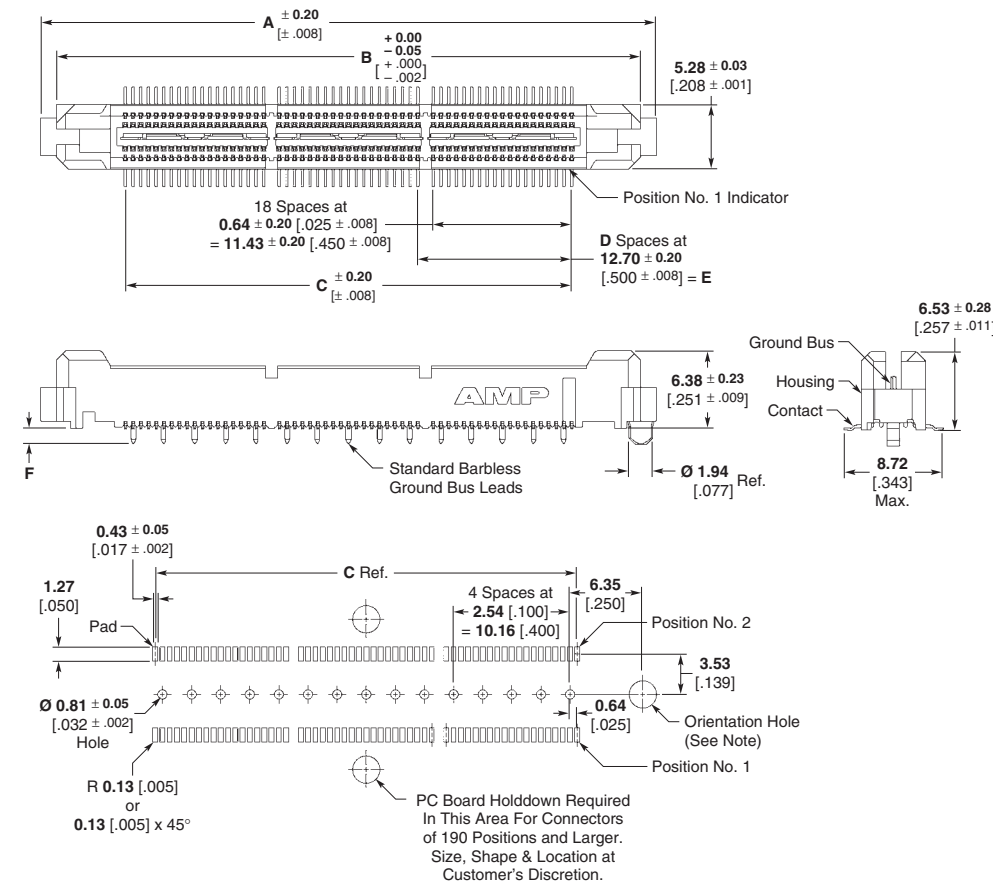
Material and Finish — page 43

Performance Characteristics — page 43

Mating Receptacles — pages 56-61

Technical Documents — page 113

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



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].

Recommended PC Board Layout (Viewed from Connector Side)

No. of Pos.	Dimensions						Platings		Part Numbers						
	A	B	C	D	E	F	Solder Tail	Contact	Barbed G/B Leads		Barbless G/B Leads				
									Tube	T&R Vacuum Caps	Tube	T&R Vacuum Caps			
38	25.40	22.81	11.43	0	—	1.35 [.053]	Sn	Gold	5767007-8	5767111-8	5767111-1	5767116-1	5767118-1	5767118-8	
	1.000	.898	.450			2.72 [.107]			PdNi	5767056-1	—	—	—	—	—
						2.64 [.104]									
76	38.10	31.70	24.13	1	12.70	1.35 [.053]	Sn	Gold	5767007-9	5767111-9	5767111-2	5767116-2	5767118-2	5767118-9	
	1.500	1.248	.950		.500	2.72 [.107]			PdNi	5767056-2	—	—	—	—	
						2.64 [.104]									
114	50.80	48.21	36.83	2	25.40	1.35 [.053]	Sn	Gold	1-5767007-0	1-5767111-0	5767111-3	5767116-3	5767118-3	1-5767118-0	
	2.000	1.898	1.450		1.000	2.72 [.107]			PdNi	5767056-3	—	—	—	—	
						2.64 [.104]									
152	63.50	60.91	49.53	3	38.10	1.35 [.053]	Sn	Gold	1-5767007-1	1-5767111-1	5767111-4	5767116-4	5767118-4	1-5767118-1	
	2.500	2.398	1.950		1.500	2.72 [.107]			PdNi	5767056-4	—	—	—	—	
						2.64 [.104]									
190	76.20	73.61	62.23	4	50.80	1.35 [.053]	Sn	Gold	1-5767007-2	1-5767111-2	5767111-5	5767116-5	5767118-5	1-5767118-2	
	3.000	2.898	2.450		2.000	2.72 [.107]			PdNi	5767056-5	—	—	—	—	
						2.64 [.104]									
228	88.90	86.31	74.93	5	63.50	1.35 [.053]	Sn	Gold	1-5767007-3	—	—	5767116-6	—	—	
	3.500	3.398	2.950		2.500	2.72 [.107]			PdNi	5767056-6	—	—	—	—	
						2.64 [.104]									
266	101.60	99.01	87.63	6	76.20	1.35 [.053]	Sn	Gold	1-5767007-4	—	—	5767116-7	—	—	
	4.000	3.898	3.450		3.000	2.72 [.107]			PdNi	5767056-7	—	—	—	—	
						2.64 [.104]									

Note: Part Numbers are RoHS compliant.

MICTOR Vertical Plugs (Continued)

9.00 [.354] Stacking Height*

Related Product Data

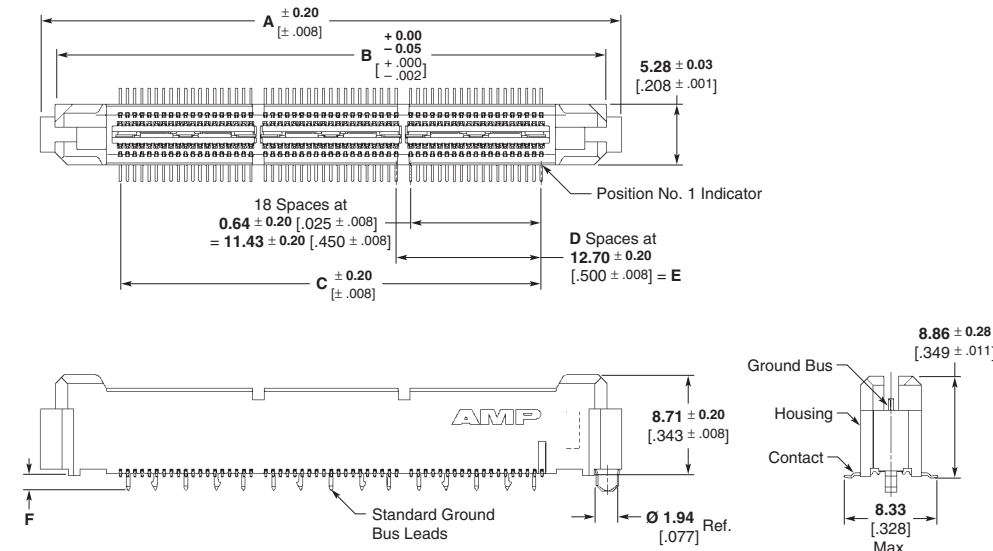
Material and Finish — page 43

Performance Characteristics — page 43

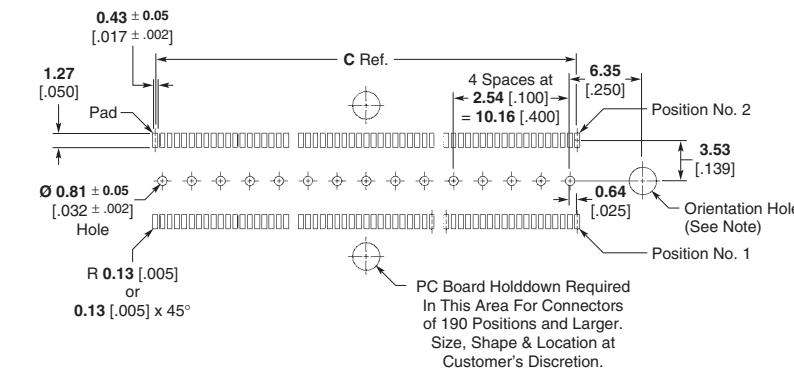
Mating Receptacles — pages 56-61

Technical Documents — page 113

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



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].



Recommended PC Board Layout
(Viewed from Connector Side)

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

Note: Part Numbers are RoHS compliant.

0.635mm MICTOR Connectors

MICTOR Vertical Plugs (Continued)

11.00 [.430]
Stacking Height*

Related Product Data

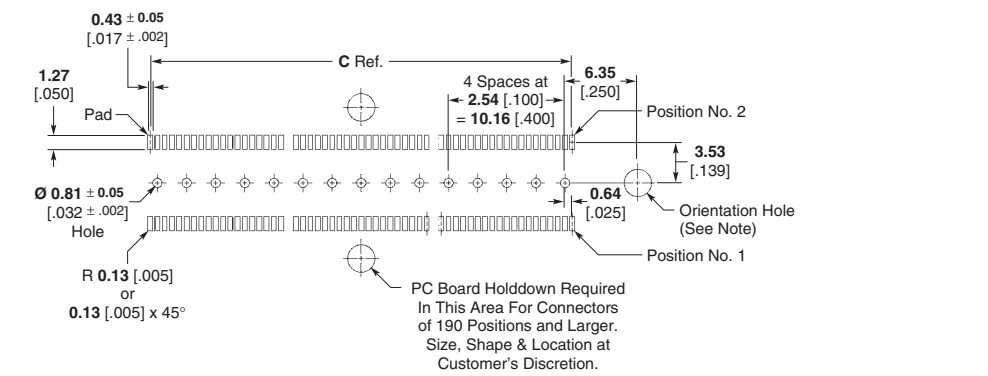
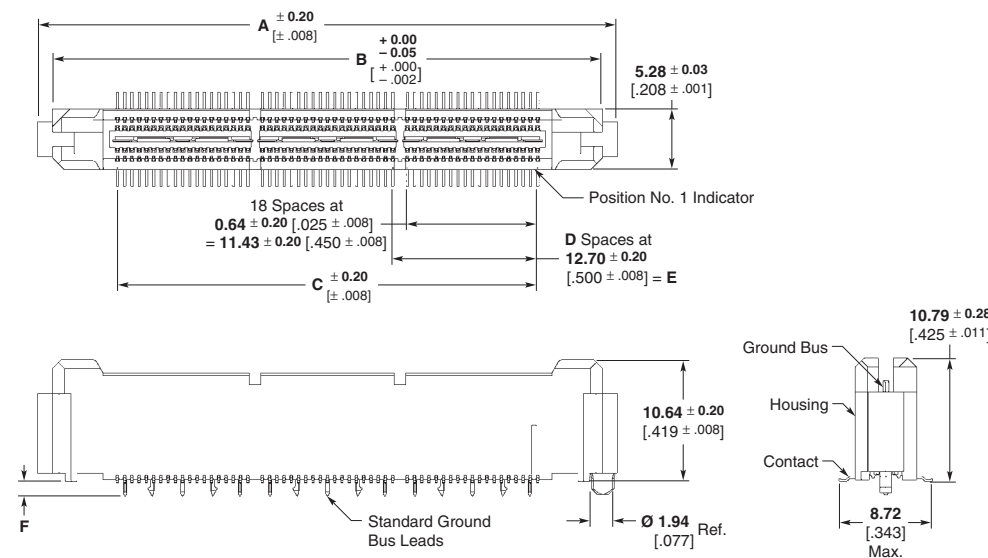
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* 11.00 [.430] stack height when mated to vertical receptacle;
19.94 [.785] stack height when mated to vertical receptacle (extended height).



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].

Recommended PC Board Layout
(Viewed from Connector Side)

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

Note: Part Numbers are RoHS compliant.

MICTOR Vertical Plugs (Continued)

12.57 [.495] Stacking Height*

Related Product Data

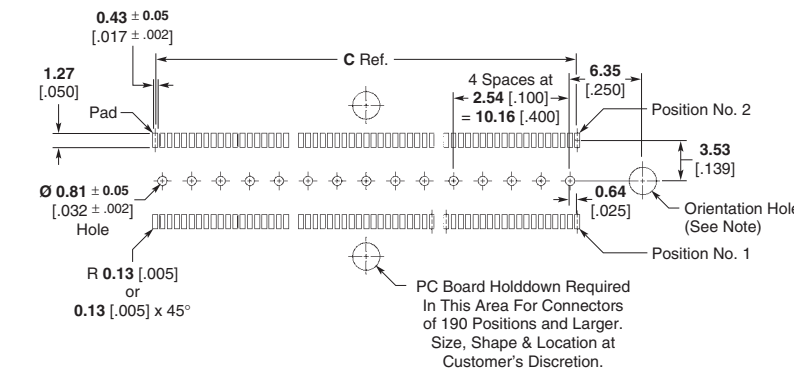
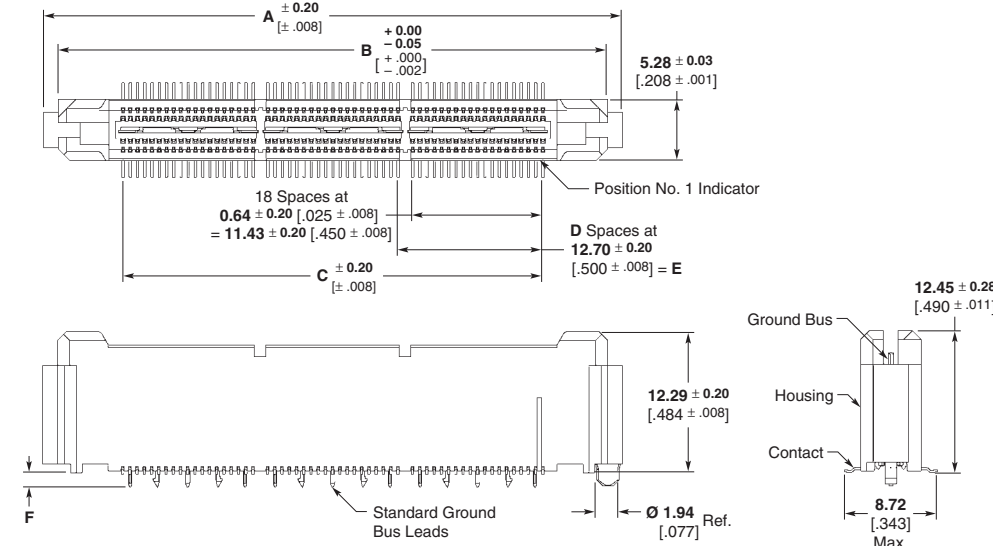
Material and Finish — page 43

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Mating Receptacles — pages 56-61

Technical Documents — page 113

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



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].

Recommended PC Board Layout
(Viewed from Connector Side)

0.635mm MICTOR Connectors

No. of Pos.	Dimensions						Platings		Part Numbers					
	A	B	C	D	E	F	Solder Tail	Contact	Barbed G/B Leads			Barbless G/B Leads		
									Tube	T&R Vacuum Caps		Tube	T&R Vacuum Caps	
38	25.40	22.81	11.43	0	—	1.52 [.060]	Sn	Gold	5767005-8	5767149-1	5767149-8	5767120-1	5767121-1	5767121-8
	1.000	.898	.450	—	—	2.64 [.104]			PdNi	5767057-1	—	—	5767082-1	—
76	38.10	31.70	24.13	1	12.70	1.52 [.060]	Sn	Gold	5767005-9	5767149-2	5767149-9	5767120-2	5767121-2	5767121-9
	1.500	1.248	.950	—	.500	2.64 [.104]			PdNi	5767057-2	—	—	5767082-2	—
114	50.80	48.21	36.83	2	25.40	1.52 [.060]	Sn	Gold	1-5767005-0	5767149-3	1-5767149-0	5767120-3	5767121-3	1-5767121-0
	2.000	1.898	1.450	—	1.000	2.64 [.104]			PdNi	5767057-3	—	—	5767082-3	—
152	63.50	60.91	49.53	3	38.10	1.52 [.060]	Sn	Gold	1-5767005-1	5767149-4	1-5767149-1	5767120-4	5767121-4	1-5767121-1
	2.500	2.398	1.950	—	1.500	2.64 [.104]			PdNi	5767057-4	—	—	5767082-4	5767127-4
190	76.20	73.61	62.23	4	50.80	1.52 [.060]	Sn	Gold	1-5767005-2	5767149-5	1-5767149-2	5767120-5	—	—
	3.000	2.898	2.450	—	2.000	2.64 [.104]			PdNi	5767057-5	—	—	5767082-5	5767127-5
228	88.90	86.31	74.93	5	63.50	1.52 [.060]	Sn	Gold	1-5767005-3	—	—	5767120-6	—	—
	3.500	3.398	2.950	—	2.500	2.64 [.104]			PdNi	5767057-6	—	—	5767082-6	—
266	101.60	99.01	87.63	6	76.20	1.52 [.060]	Sn	Gold	1-5767005-4	—	—	5767120-7	—	—
	4.000	3.898	3.450	—	3.000	2.64 [.104]			PdNi	5767057-7	—	1-5767151-4	5767082-7	—

Note: Part Numbers are RoHS compliant.

MICTOR Vertical Plugs (Continued)

**17.96 [.707]
Stacking Height***

Related Product Data

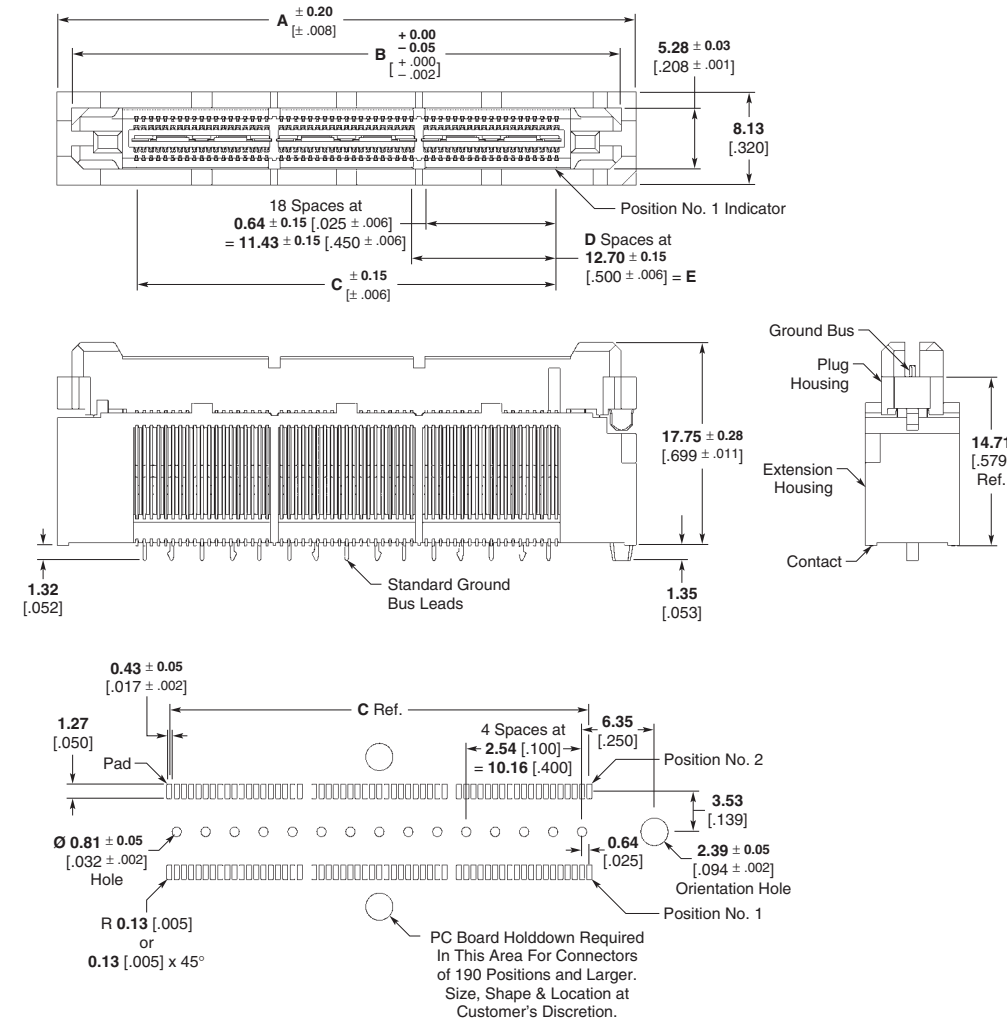
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* 17.96 [.707] stack height when mated to vertical receptacle; 26.97 [1.062] stack height when mated to vertical receptacle (extended height).



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

**Recommended PC Board Layout
(Connector Side of Board Shown)**

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

Note: Part Numbers are RoHS compliant.

MICTOR Vertical Plugs (Continued)

18.75 [.738]
Stacking Height*

Related Product Data

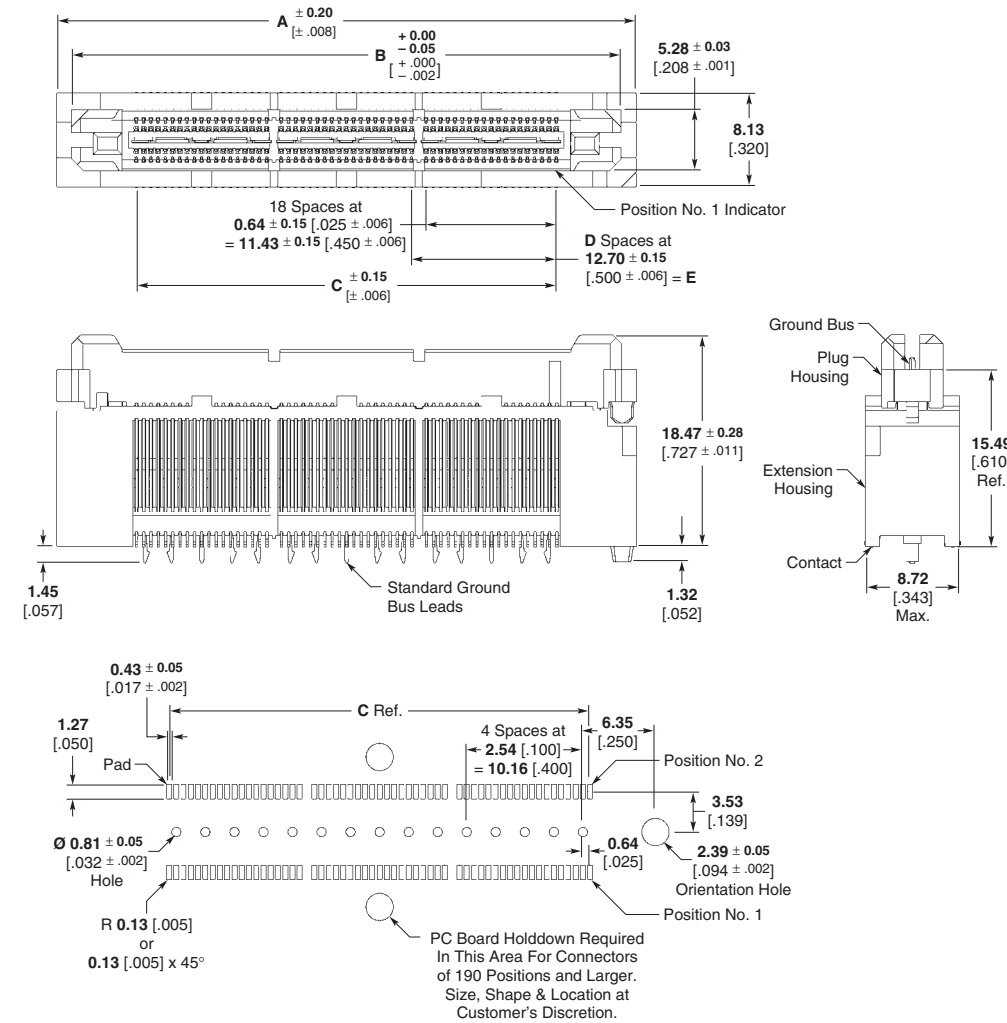
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* 18.75 [.738] stack height when mated to vertical receptacle;
27.76 [1.093] stack height when mated to vertical receptacle (extended height).



0.635mm MICTOR Connectors

Recommended PC Board Layout
(Connector Side of Board Shown)

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

Note: Part Numbers are RoHS compliant.

MICTOR Vertical Plugs (Continued)

20.00 [.785]
Stacking Height*

Related Product Data

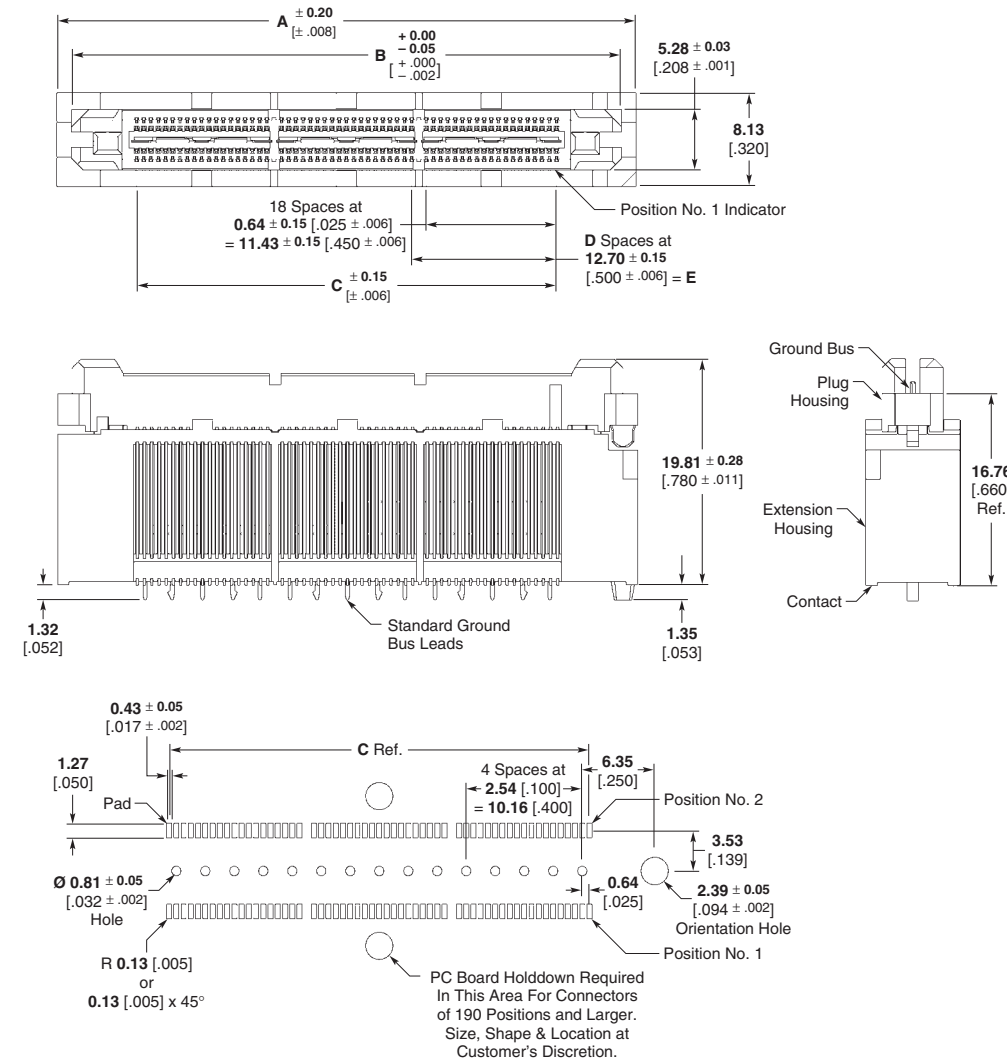
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* 20.02 [.788] stack height when mated to vertical receptacle;
29.03 [1.143] stack height when mated to vertical receptacle (extended height).



Recommended PC Board Layout
(Connector Side of Board Shown)

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

Note: Part Numbers are RoHS compliant.

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

MICTOR Vertical Plugs (Continued)

**22.86 [.900]
Stacking Height***

Related Product Data

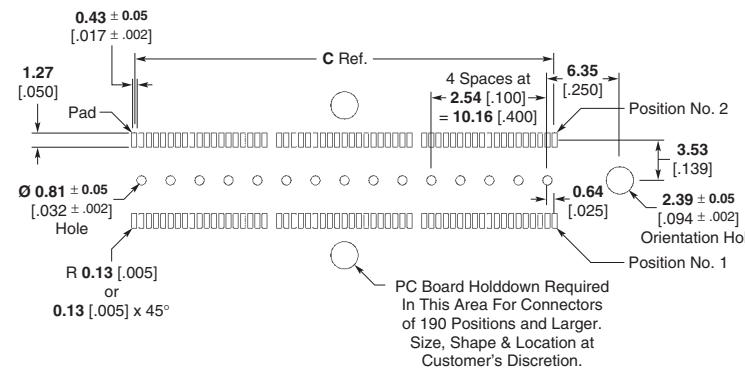
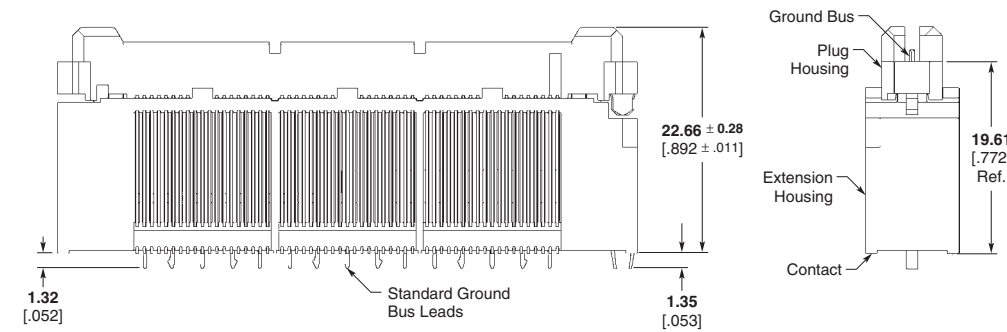
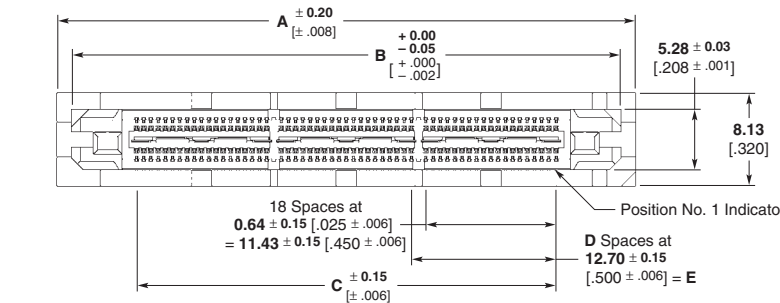
Material and Finish — page 43

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Mating Receptacles — pages 56-61

Technical Documents — page 113

* 22.86 [.900] stack height when mated to vertical receptacle;
31.89 [1.255] stack height when mated to vertical receptacle (extended height).



**Recommended PC Board Layout
(Connector Side of Board Shown)**

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

Note: Part Numbers are RoHS compliant.

0.635mm MICTOR Connectors

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.

MICTOR Right Angle Plugs

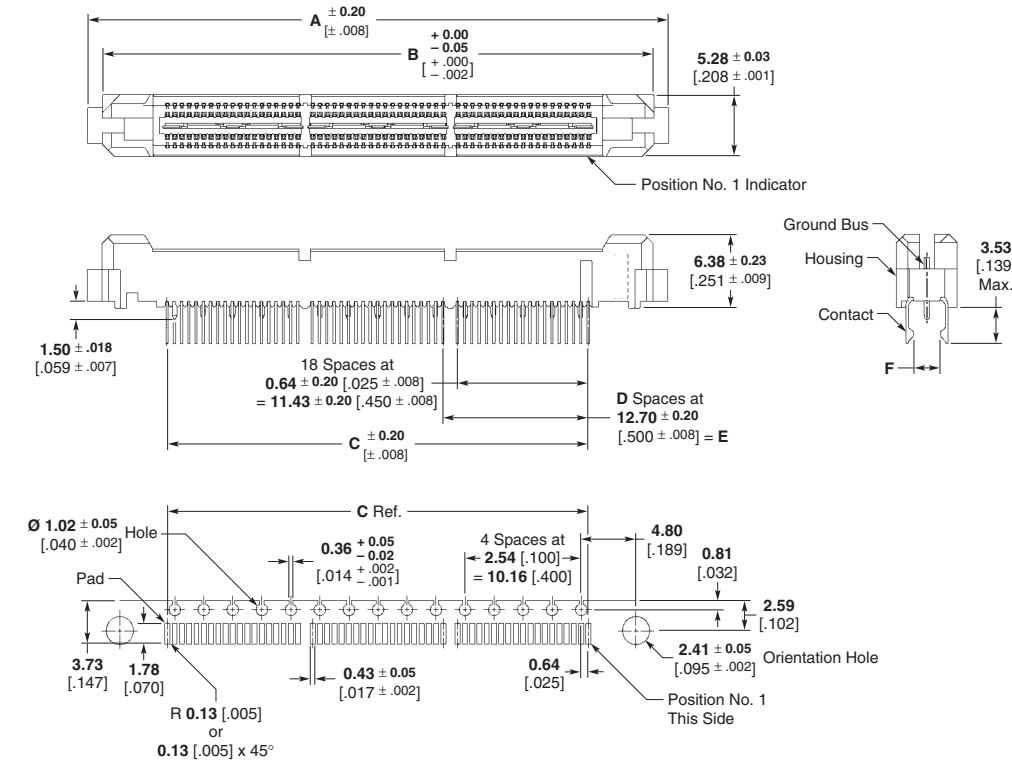
Related Product Data

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**Recommended PC Board Layout
(Mirror Image on Opposite Side)**

MICTOR Right Angle Plugs (Continued)

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

Note: Part Numbers are RoHS compliant.

0.635mm MICTOR Connectors

MICTOR Vertical Receptacles

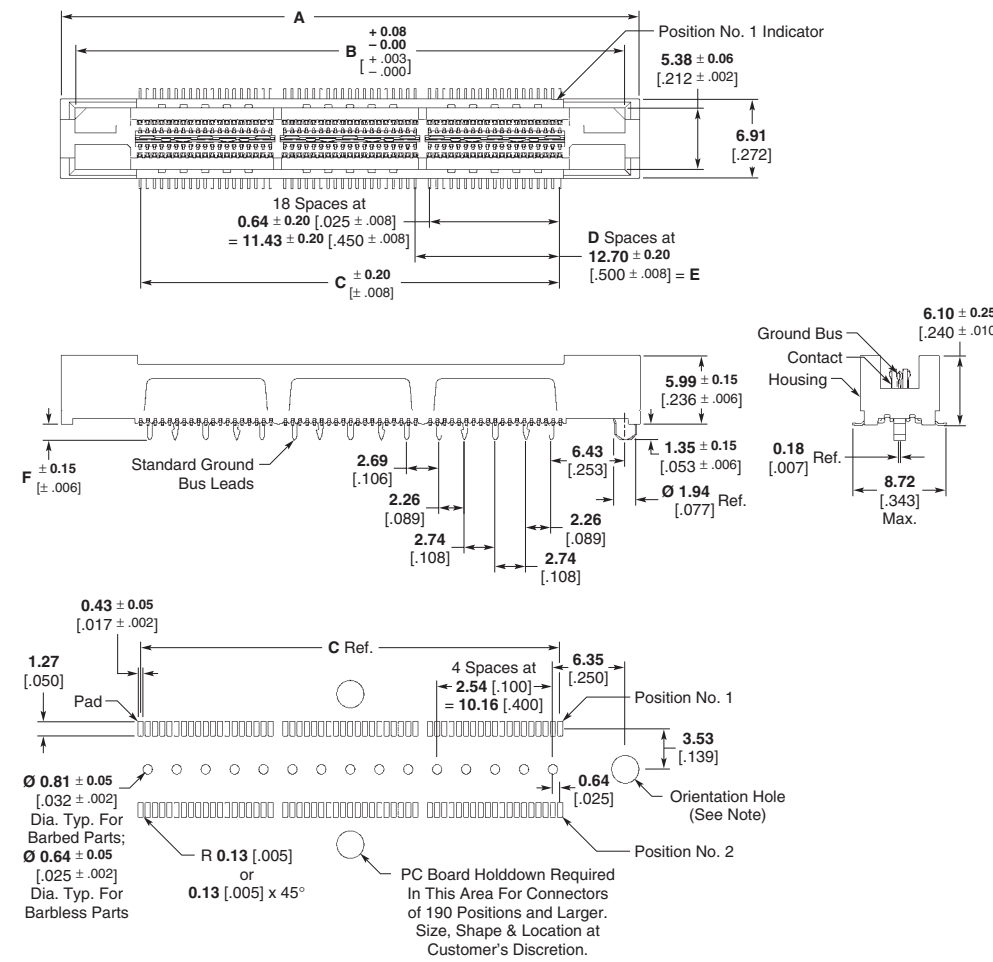
Related Product Data

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Performance Characteristics — page 43

Mating Plugs — pages 46-55

Technical Documents — page 113



Recommended PC Board Layout
(Connector Side of Board Shown)

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

MICTOR Vertical Receptacles (Continued)

No. of Pos.	Dimensions						Platings		Part Numbers					
									Barbed G/B Leads			Barbless G/B Leads		
	A	B	C	D	E	F	Solder Tail	Contact	Tube	T&R Vacuum Caps		Tube	T&R Vacuum Caps	
										With	Without		With	Without
38	25.40 1.000	22.86 .900	11.43 .450	0	—	1.40 .055	Sn	Gold	2-5767004-2	5767096-8	5767096-1	5767110-1	5767114-1	5767114-8
									5767181-1	—	—	—	—	
									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	Sn	Gold	2-5767004-3	5767096-9	5767096-2	5767110-2	5767114-2	5767114-9
									5767181-2	—	—	—	—	
									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	Sn	Gold	2-5767004-4	1-5767096-0	5767096-3	5767110-3	5767114-3	1-5767114-0
									5767181-3	—	—	—	—	
									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	Sn	Gold	2-5767004-5	1-5767096-1	5767096-4	5767110-4	5767114-4	1-5767114-1
									5767181-4	—	—	—	—	
									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	Sn	Gold	2-5767004-6	1-5767096-2	5767096-5	5767110-5	5767114-5	1-5767114-2
									5767181-5	—	—	—	—	
									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	Sn	Gold	2-5767004-7	—	—	5767110-6	—	—
									5767181-6	—	—	—	—	
									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	Sn	Gold	2-5767004-8	—	—	5767110-7	—	—
									5767181-7	—	—	—	—	
									5767054-7	—	—	5767081-7	—	—

Note: Part Numbers are RoHS compliant.

0.635mm MICTOR Connectors

Related Product Data

Material and Finish — page 43

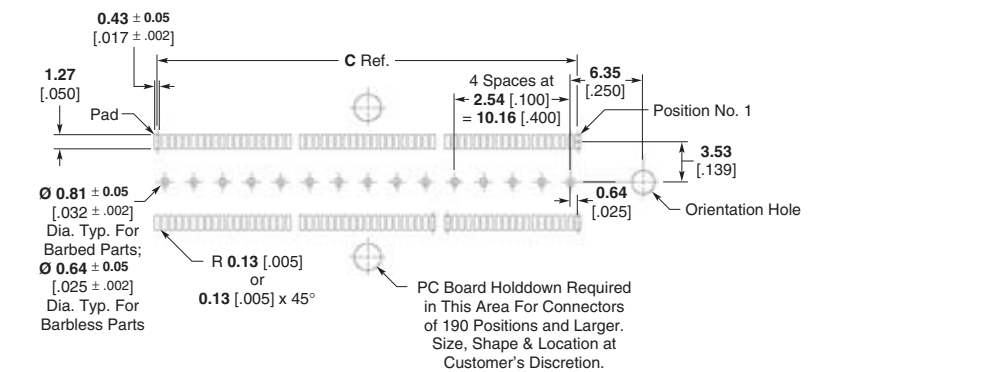
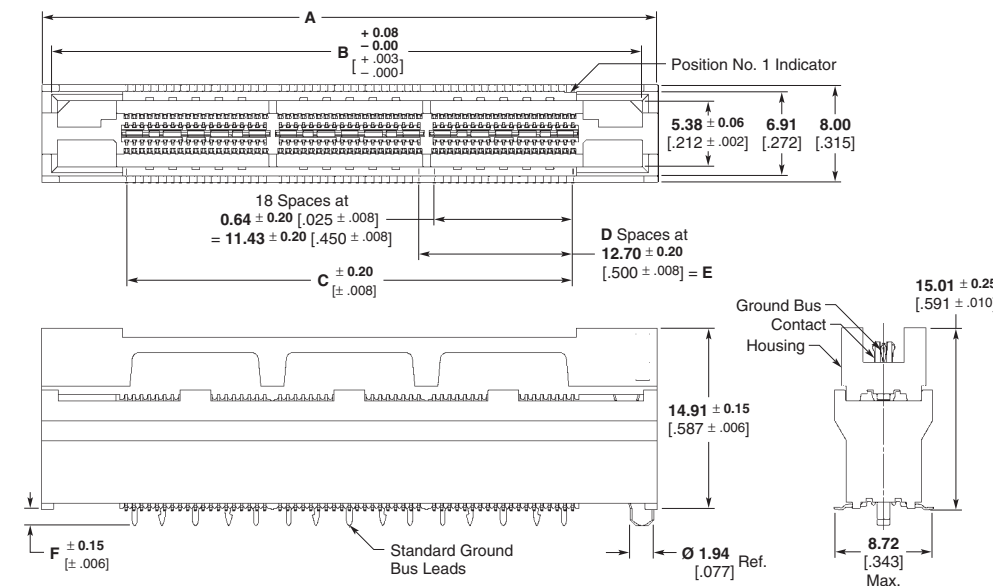
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Mating Plugs — pages 46-55

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When mated with a standard vertical plug, this extended height receptacle adds 9.017 [.355] to the mated stack height when compared with the standard height vertical receptacle.

MICTOR Vertical Receptacles (Extended Height)



**Recommended PC Board Layout
(Connector Side of Board Shown)**

MICTOR Vertical Receptacles (Extended Height) (Continued)

No. of Pos.	Dimensions						Platings		Part Numbers					
									Barbed G/B Leads			Barbless G/B Leads		
	A	B	C	D	E	F	Solder Tail	Contact	Tube	T&R Vacuum Caps		Tube	T&R Vacuum Caps	
										With	Without		With	Without
38	25.40	22.86	11.43	0	—	1.37 [.054]	Sn	Gold	5767130-1	5767146-1	5767146-8	—	—	—
	1.000	.900	.450			1.37 [.054]		PdNi	5767094-1	5767178-1	6761316-8	—	—	—
						2.72 [.107]			5767154-1	—	5767153-8	5767095-1	—	—
76	38.10	35.56	24.13	1	12.70	1.37 [.054]	Sn	Gold	5767130-2	5767146-2	5767146-9	—	—	—
	1.500	1.400	.950		.500	1.37 [.054]		PdNi	5767094-2	5767178-2	—	—	—	—
						2.72 [.107]			5767154-2	—	5767153-9	5767095-2	—	—
114	50.80	48.26	36.83	2	25.40	1.37 [.054]	Sn	Gold	5767130-3	5767146-3	1-5767146-0	—	—	—
	2.000	1.900	1.450		1.000	1.37 [.054]		PdNi	5767094-3	—	—	—	—	—
						2.72 [.107]			5767154-3	—	1-5767153-0	5767095-3	5767145-3	1-5767145-0
152	63.50	60.96	49.53	3	38.10	1.37 [.054]	Sn	Gold	5767130-4	5767146-4	1-5767146-1	—	—	—
	2.500	2.400	1.950		1.500	1.37 [.054]		PdNi	5767094-4	—	—	—	—	—
						2.72 [.107]			5767154-4	—	1-5767153-1	5767095-4	—	1-5767145-1
190	76.20	73.66	62.23	4	50.80	1.37 [.054]	Sn	Gold	5767130-5	—	—	—	—	—
	3.000	2.900	2.450		2.000	1.37 [.054]		PdNi	5767094-5	5767178-5	1-6761316-2	—	—	—
						2.72 [.107]			5767154-5	—	1-5767153-2	5767095-5	—	—
228	88.90	86.36	74.93	5	63.50	1.37 [.054]	Sn	Gold	5767130-6	—	—	—	—	—
	3.500	3.400	2.950		2.500	1.37 [.054]		PdNi	5767094-6	—	—	—	—	—
						2.72 [.107]			5767154-6	—	1-5767153-3	5767095-6	—	—
266	101.60	99.06	87.63	6	76.20	1.37 [.054]	Sn	Gold	5767130-7	—	—	—	—	—
	4.000	3.900	3.450		3.000	1.37 [.054]		PdNi	5767094-7	—	—	—	—	—
						2.72 [.107]			5767154-7	—	1-5767153-4	5767095-7	—	—

Note: Part Numbers are RoHS compliant.

0.635mm MICTOR Connectors

MICTOR Right Angle Receptacles

Related Product Data

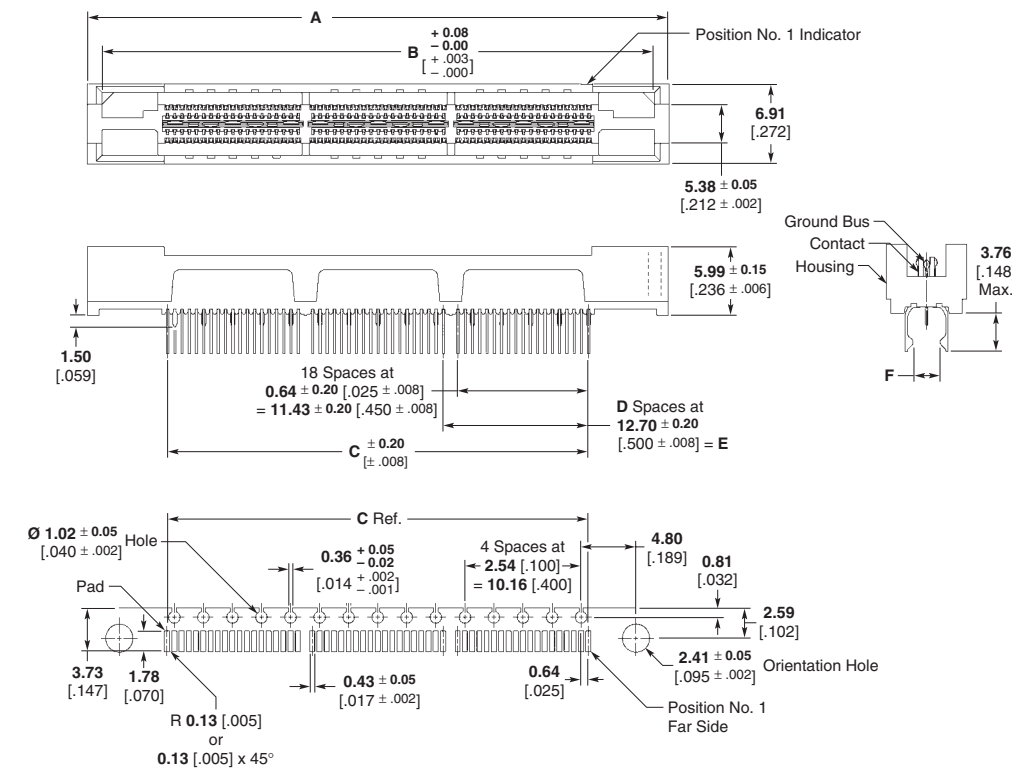
Material and Finish — page 43

Performance Characteristics — page 43

Mating Plugs — pages 46-55

Application Tooling — page 62

Technical Documents — page 113



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

MICTOR Right Angle Receptacles (Continued)

No. of Pos.	Dimensions						Platings		Part Numbers
	A	B	C	D	E	F	Solder Tail	Contact	
38	25.40 1.000	22.86 .900	11.43 .450	0	0.00 .000	1.52 .060	Sn	Gold	5767143-1
						2.31 .091	Sn	PdNi	5767044-1
76	38.10 1.500	35.56 1.400	24.13 .950	1	12.70 .500	1.52 .060	Sn	Gold	5767143-2
						2.31 .091	Sn	PdNi	5767044-2
114	50.80 2.000	48.26 1.900	36.83 1.450	2	25.40 1.000	1.52 .060	Sn	Gold	5767143-3
						2.31 .091	Sn	PdNi	5767044-3
152	63.50 2.500	60.96 2.400	49.53 1.950	3	38.10 1.500	1.52 .060	Sn	Gold	5767143-4
						2.31 .091	Sn	PdNi	5767044-4
190	76.20 3.000	73.66 2.900	62.23 2.450	4	50.80 2.000	1.52 .060	Sn	Gold	5767143-5
						2.31 .091	Sn	PdNi	5767044-5
228	88.90 3.500	86.36 3.400	74.93 2.950	5	63.50 2.500	1.52 .060	Sn	Gold	5767143-6
						2.31 .091	Sn	PdNi	5767044-6
266	101.60 4.000	99.06 3.900	87.63 3.450	6	76.20 3.000	1.52 .060	Sn	Gold	5767143-7
						2.31 .091	Sn	PdNi	5767044-7

Note: Part Numbers are RoHS compliant.

0.635mm MICTOR Connectors

Two operations must be performed so that the MICTOR right angle connector can be successfully installed on a PC board. First, the board must be slit for the ground/bus bar. At the customer's option, this operation may be done at the time of board manufacture. Second, the right angle connector must be properly placed on the board.

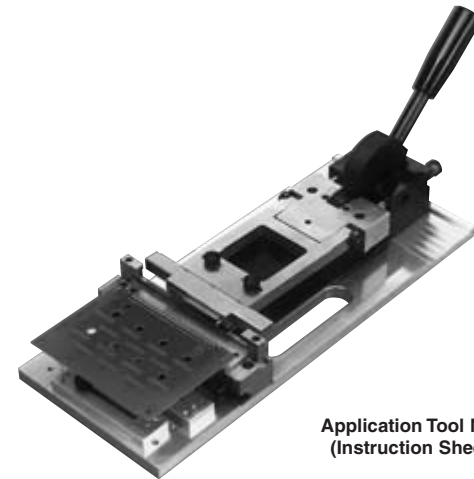
Tyco Electronics offers bench-mount tooling for slitting the PC board (see below) and a free-standing tool for installing the connector (shown at the right). AMP Application Specification No. 114-11004 and Instruction Sheets are available to provide the necessary instructions and recommendations for proper tool use.

Application Specification No. 114-13008 for Right Angle.

Fine Pitch SMT Stacking Connectors
(Parallel Board-to-Board)



Application Tooling for MICTOR Right Angle Connectors



Application Tool Number 767511-1
(Instruction Sheet No. 408-4335)

Replacement Components for Tool Number 767511-1

Connector Size (No. of Positions)	Board Locator Pin		Plug Inserter	Receptacle Inserter	Support Pillar
	Round	Diamond			
38	767523-1	767526-1	767514-1	767570-1	767522-1
76	767523-1	767526-1	767514-2	767570-2	767522-1
114	767523-1	767526-1	767514-3	767570-3	767522-1
152	767523-1	767526-1	767514-4	767570-4	767522-1
190	767523-1	767526-1	767514-5	767570-5	767522-1
228	767523-1	767526-1	767514-6	767570-6	767522-1
266	767523-1	767526-1	767514-7	767570-7	767522-1



Slitting Tool Number 767527-1
(Instruction Sheet No. 408-4334)

Replacement Components for Tool Number 767527-1

Component Description	Quantity Required for Each Increment of 38 Positions (0.64 [.025] Centerline)	Part Number
Slitting Punch (Set of 35)	5	767532-1
Die Insert* (Set of 7)	1	767530-1

* The die insert is located in the tool with a 3.18 x 28.58 [.125 x 1.125] long dowel and held in place with a 6-32 UNC-2A x 7.94 [5/16] long socket head cap screw (not included with replacement insert).

Note: Part Numbers are RoHS compliant.

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