Stacking Height Guide for Parallel Board-to-Board Applications

Stacking Height mm	Stacking Height inch	Connector Description	Pitch	Connector Sizes (No. of Positions) 10	12	14	16	20	22	24	30	34	38	40	46	50
1.00	0.039	.4mm Fine Stack	.4mm													
1.50	0.059	.4mm Fine Stack	.4mm													
1.50	0.059	.5mm Fine Stack	.5mm													
3.00	0.118	.8mm Fine Stack	.8mm													
3.90	0.154	.8mm Fine Stack	.8mm													
4.00	0.157	.5mm Fine Mate	.5mm													
4.00	0.157	.6mm Free Height	.6mm													
4.00	0.157	.8mm Fine Mate	.8mm													
4.20	0.165	.8mm Fine Stack	.8mm													
4.50	0.177	.5mm Fine Mate	.5mm													
4.50	0.177	.8mm Fine Mate	.8mm													
4.70	0.185	.8mm Fine Stack	.8mm													
5.00	0.197	.5mm Free Height	.5mm													
5.00	0.197	.6mm Free Height	.6mm													
5.00	0.197	.8mm Fine Stack	.8mm													
5.00	0.197	.8mm Free Height	.8mm													
5.50	0.217	.5mm Fine Mate	.5mm													
5.90	0.232	.8mm Fine Stack	.8mm													
6.00	0.236	.5mm Fine Mate	.5mm													
6.00	0.236	.5mm Free Height	.5mm													
6.00	0.236	.6mm Free Height	.6mm													
6.00	0.236	.8mm Free Height	.8mm													
6.35	0.250	AMPMODU 50/50	.050"													
6.60	0.260	MICTOR	.025"													
7.00	0.276	.5mm Free Height	.5mm													
7.00	0.276	.6mm Free Height	.6mm													
7.00	0.276	.8mm Fine Stack	.8mm													
7.00	0.276	.8mm Free Height	.8mm													
8.00	0.315	.5mm Free Height	.5mm													
8.00	0.315	.6mm Free Height	.6mm													
8.00	0.315	.8mm Free Height	.8mm													
8.00	0.315	1mm Free Height	1mm													
8.13	0.320	AMPMODU 50/50	.050"													
9.00	0.354	.5mm Free Height	.5mm													
9.00	0.354	.8mm Fine Stack	.8mm													
9.00	0.354	.8mm Free Height	.8mm													
9.00	0.354	1mm Free Height	1mm													
9.00	0.354	MICTOR	.025"													
9.91	0.390	AMPMODU 50/50	.050"													
10.00	0.394	.6mm Free Height	.6mm													
10.00	0.394	.8mm Free Height	.8mm													
10.00	0.394	1mm Free Height	1mm													
10.92	0.430	MICTOR	.025"													
11.00	0.433	.5mm Free Height	.5mm													
11.00	0.433	.6mm Free Height	.6mm													
11.00	0.433	.8mm Free Height	.8mm													
11.00	0.433	1mm Free Height	1mm													
12.00	0.472	.5mm Free Height	.5mm													
12.00	0.472	.6mm Free Height	.6mm													
12.00	0.472	.8mm Free Height	.8mm													
12.00	0.472	1mm Free Height	1mm													
12.57	0.495	MICTOR	.025"													
13.00	0.512	.6mm Free Height	.6mm													
13.00	0.512	.8mm Free Height	.8mm													
13.00	0.512	1mm Free Height	1mm													
13.08	0.515	AMPMODU System 50	.050"													
14.00	0.551	.6mm Free Height	.6mm													
14.00	0.551	.8mm Free Height	.8mm													
14.00	0.551	1mm Free Height	1mm													
15.00	0.591	.5mm Free Height	.5mm													
15.00	0.591	.6mm Free Height	.6mm													
15.00	0.591	.8mm Free Height	.8mm													
15.00	0.591	1mm Free Height	1mm													
15.61	0.615	MICTOR	.025"													
16.00	0.630	.5mm Free Height	.5mm													
16.00	0.630	.6mm Free Height	.6mm													
16.00	0.630	.8mm Free Height	.8mm													
17.96	0.707	MICTOR	.025"													
18.00	0.709	.6mm Free Height	.6mm													
18.00	0.709	MICTOR	.025"													
18.75	0.738	MICTOR	.025"													
20.00	0.787	.6mm Free Height	.6mm													
20.00	0.787	MICTOR	.025"													
21.60	0.850	MICTOR	.025"													
22.86	0.900	MICTOR	.025"													
27.00	1.063	MICTOR	.025"													
27.80	1.094	MICTOR	.025"													
29.00	1.142	MICTOR	.025"													
31.90	1.255	MICTOR	.025"													

tyco Electronics
Fine Pitch SMT Stacking Connectors
(Parallel Board-to-Board)
AMP

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

Stacking Height mm	Stacking Height inch	Connector Description	Pitch	Connector Sizes (No. of Positions) *Continued* 54	56	60	64	70	76	80	84	100	114	120	140	152	160	180	190	200	220	228	240	266	280	320	440
1.00	0.039	.4mm Fine Stack	.4mm																								
1.50	0.059	.4mm Fine Stack	.4mm																								
1.50	0.059	.5mm Fine Stack	.5mm																								
3.00	0.118	.8mm Fine Stack	.8mm																								
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8.00	0.315	.5mm Free Height	.5mm																								
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12.00	0.472	.5mm Free Height	.5mm																								
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12.00	0.472	.8mm Free Height	.8mm																								
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13.00	0.512	1mm Free Height	1mm																								
13.08	0.515	AMPMODU System 50	.050"																								
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14.00	0.551	.8mm Free Height	.8mm																								
14.00	0.551	1mm Free Height	1mm																								
15.00	0.591	.5mm Free Height	.5mm																								
15.00	0.591	.6mm Free Height	.6mm																								
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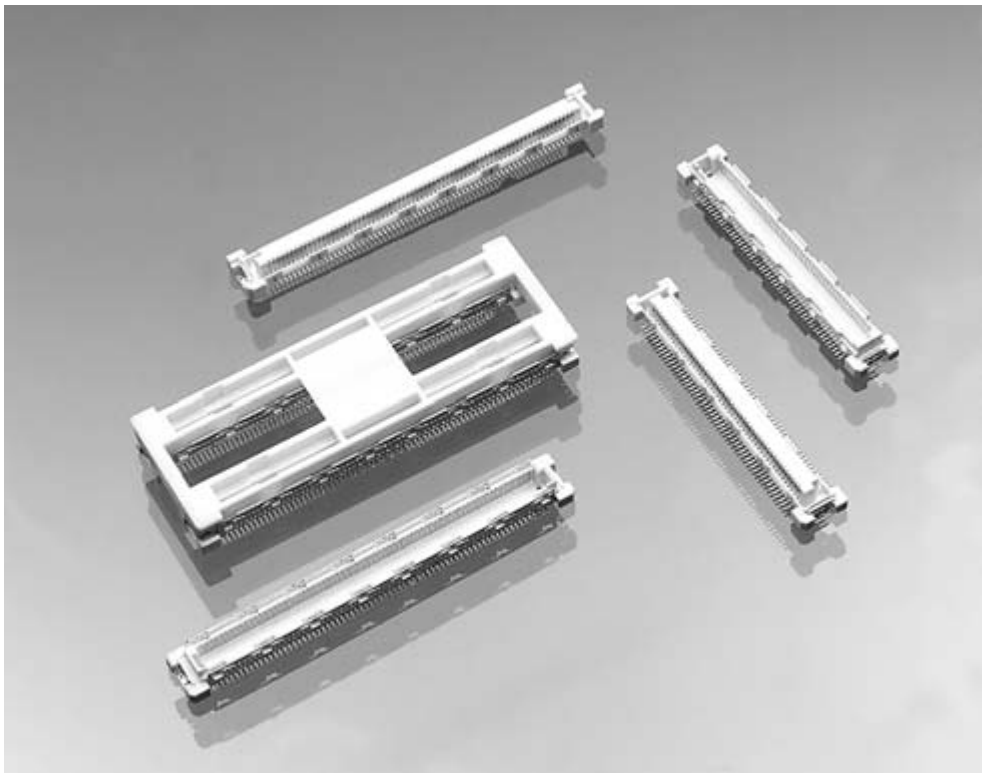
31.90	1.255	MICTOR	.025"																								

0.6mm Free Height (FH) and GIGA Connectors

Product Facts

- **0.6 [.024] pitch SMT connectors for parallel board stacking**
- **Connector sizes ranging from 50 to 280 positions**
- **Solder pegs included for anti-peeling**
- **Available packaged on "tape-and-reel" for automatic placement per EIA standards**
- **Surface areas provided to accommodate vacuum nozzles**
- **Enhanced electrical performance grounded version (GIGA) available for high speed signals**
- **Recognized under the Component Program of Underwriter Laboratories Inc., File No. E28476**



Tyco Electronics 0.6mm Free Height (FH) and GIGA connectors are designed for use in the parallel stacking of printed circuit boards. These 0.6 [.024] fine pitch connectors provide the capability of varying the spacing between parallel boards, depending upon the components to be packaged or equipment designs. They are best suited for applications where miniaturization is essential, such as notebook PCs, sub-notebook PCs, pen pads, cellular phones and communication equipment.

This connector family consists of vertical board-mount receptacles and plug assemblies. By using various combinations of plug and receptacle heights, it is possible to alter the spacing of parallel boards between 4 [.157] and 16 [.630].

The enhanced electrical performance version (GIGA) includes receptacles loaded with contacts for grounding circuits at every 9 or 10 signal circuits. These ground contacts mate with grounding plates on both sides of the plug assemblies.

0.6mm FH and GIGA connectors are packaged in trays or on "tape-and-reel" for high volume production. Each connector half features surface areas to accommodate "pick-and-place" vacuum nozzles without secondary covers. Some connector sizes are available packaged in a unique "bridge" to facilitate the aligning of dual connectors on PC boards during placement and SMT processing.

Performance Characteristics

Voltage Rating — 50 VAC

Current Rating — 0.5 ampere

Overall Resistance — less than 30 milliohms

Dielectric Withstanding Voltage — 0.2 kVAC

Operating Temperature — -40°C to +85°C

Catalog 889092
Revised 9-06

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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.

USA: 1-800-522-6752
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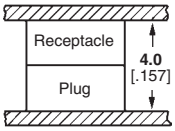
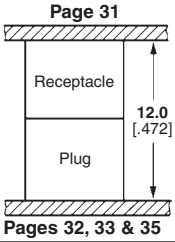
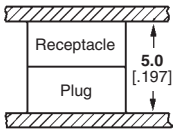
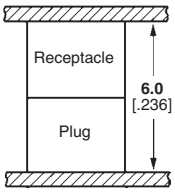
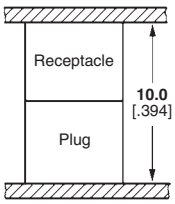
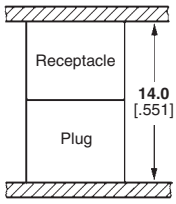
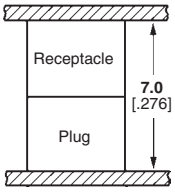
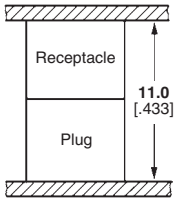
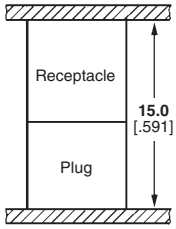
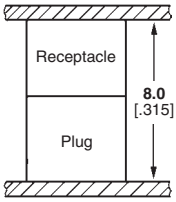
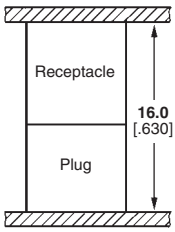
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

0.6mm Free Height (FH) and GIGA Connectors (Continued)

Board-to-Board Stacking Height Selection Guide (By Receptacle/Plug Combinations)

Plugs	Receptacles		
	4H	8H	12H
4H	Pages 30, 34  Pages 32, 33 & 35	N/A	Page 31  Pages 32, 33 & 35
5H	Page 30  Pages 32, 33	N/A	N/A
6H	Pages 30, 34  Pages 32, 33 & 35	Page 31  Page 33	Page 31  Pages 32, 33 & 35
7H	Page 30  Page 33	Page 31  Page 33	Page 31  Page 33
8H	Pages 30, 34  Pages 32, 33 & 35	N/A	Page 31  Pages 32, 33 & 35

Catalog 889092
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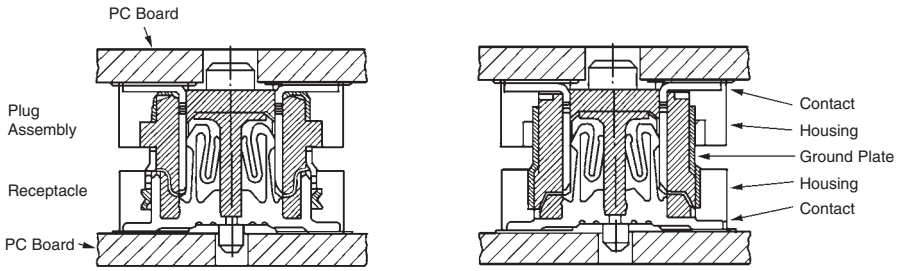
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

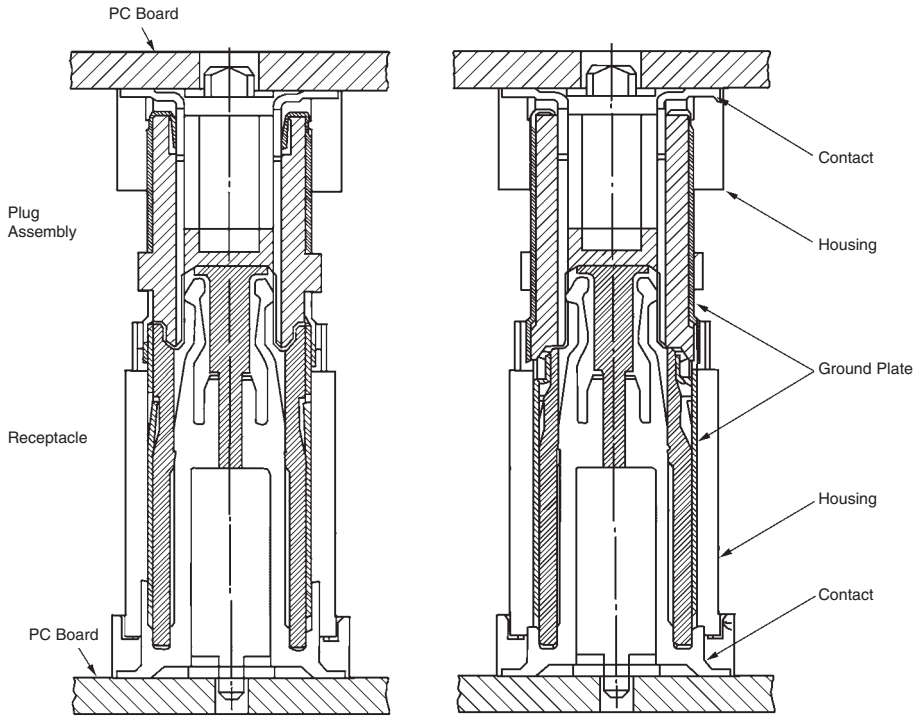
0.6mm Free Height (FH) and GIGA Connectors (Continued)

Plug/Receptacle Mating Cross-Sections



Cross-Section of Grounding Position **Cross-Section of Signal Position**

Typical Example of 4H Receptacle with Common Ground Contacts and 4H GIGA Plug with Ground Plates



Cross-Section of Grounding Position **Cross-Section of Signal Position**

Typical Example of 8H and 12H Receptacle and Plug; both with Ground Plates

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UK: 44-141-810-8967

0.6mm Free Height Receptacles, 0.6 [.024] Pitch

4H (4mm)

Note: All receptacles include common ground contacts that mate with standard plug assemblies or GIGA plug assemblies with ground plates.

Material and Finish

Housing — High temperature thermoplastic, 94V-0 rated

Signal Contacts — Copper alloy; duplex plated 0.00020 [.000008] min. gold on contact area, 0.00005 [.000002] min. gold on solder area, with entire contact underplated 0.00130 [.000051] min. nickel

Ground Contacts — Copper alloy; duplex plated 0.00020 [.000008] min. gold on contact area, 0.00100 [.000039] min. tin on solder area, with entire contact underplated 0.00130 [.000051] min. nickel

Related Product Data

Performance Characteristics — page 27

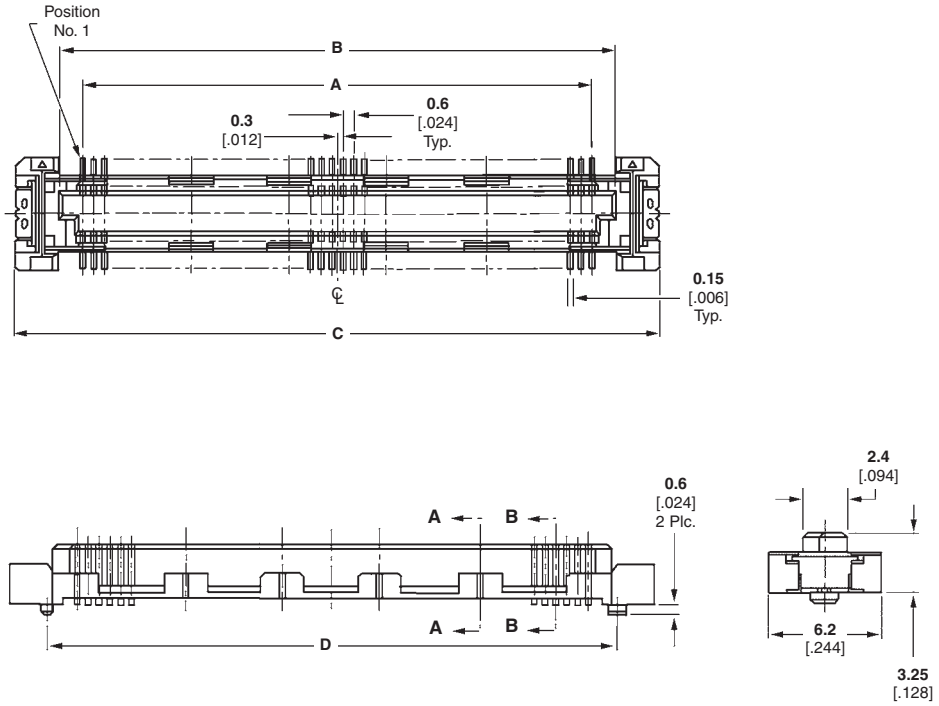
Stacking Height Combinations — page 28

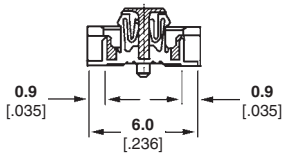
Mating Plugs — pages 32, 33 & 35

PC Board Layout — pages 36 & 37

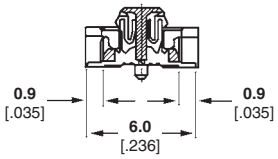
Technical Documents (page 113)

Product Specification
108-5468





Section A - A (Ground Position)



Section B - B (Signal Position)

Stacking Height	No. of Positions	Dimensions				Part Numbers	
		A	B	C	D	Tray Packaged	Tape Packaged
4H	50	**14.4** .567	**17.0** .669	**21.7** .854	**17.6** .693	5316077-3	5353190-3
	70	**20.4** .803	**23.0** .906	**27.7** 1.091	**23.6** .929	—	5-5353190-5
	80	**23.4** .921	**26.0** 1.024	**30.7** 2.087	**26.6** 1.047	5316560-6	5353190-6
	100	**29.4** 1.158	**32.0** 1.260	**36.7** 1.445	**32.6** 1.284	—	5353190-8
	140	**41.4** 1.630	**44.0** 1.732	**48.7** 1.917	**44.6** 1.756	1-5316077-0	1-5353190-0
	160	**47.4** 1.866	**50.0** 1.969	**54.7** 2.154	**50.6** 1.992	1-5316560-1	—

Note: Free Height (FH) receptacles for 8H (8mm) and 12H (12mm) stacking height are shown on page 31. Part Numbers are RoHS compliant.

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UK: 44-141-810-8967

0.6mm Free Height Receptacles, 0.6 [.024] Pitch (Continued)

8H (8mm) and 12H (12mm)

Note: All receptacles include common ground contacts that mate with standard plug assemblies or GIGA plug assemblies with ground plates.

Material and Finish

Housing — High temperature thermoplastic, 94V-0 rated

Signal Contacts — Copper alloy; duplex plated 0.00020 [.000008] min. gold on contact area, 0.00005 [.000002] min. gold on solder area, with entire contact underplated 0.00130 [.000051] min. nickel

Ground Contacts — Copper alloy; duplex plated 0.00020 [.000008] min. gold on contact area, 0.00100 [.000039] min. tin on solder area, with entire contact underplated 0.00130 [.000051] min. nickel

Related Product Data

Performance Characteristics — page 27

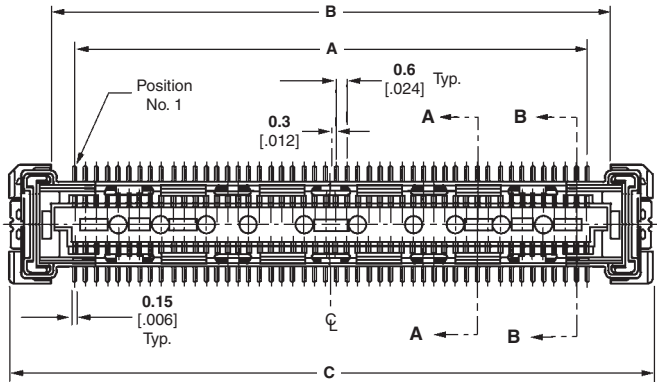
Stacking Height Combinations — page 28

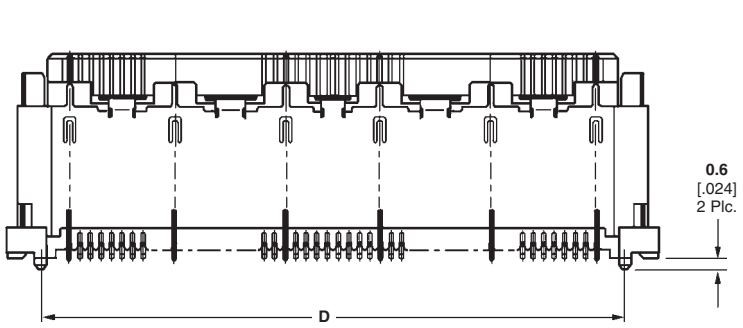
Mating Plugs — pages 32 & 33

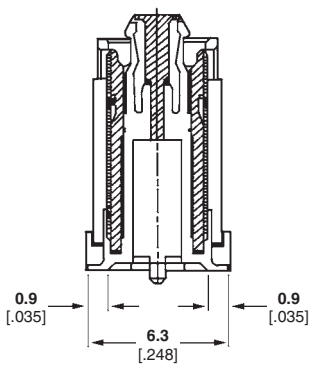
PC Board Layout — pages 36 & 37

Technical Documents (page 113)

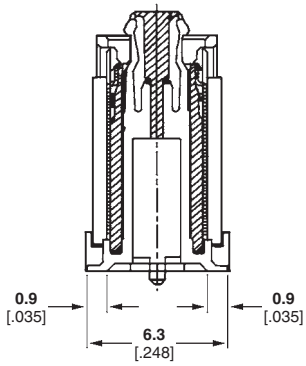
Product Specification
108-5468







Section A - A (Ground Position)



Section B - B (Signal Position)

Stacking Height	No. of Positions	Dimensions					Part Numbers (Tray Packaged)
		A	B	C	D	E	
8H	80	**23.4** .921	**26.0** 1.024	**30.7** 2.087	**26.6** 1.047	**7.25** .285	5316317-6
12H	50	**14.4** .567	**17.0** .670	**21.7** .854	**17.6** .693	**11.25** .443	6318029-3
	140	**41.4** 1.630	**44.0** 1.732	**48.7** 1.917	**44.6** 1.756	**11.25** .443	1-5316318-0
	160	**47.4** 1.866	**50.0** 1.969	**54.7** 2.154	**50.6** 1.992	**11.25** .443	1-5316318-1

Note: Free Height (FH) receptacles for 4H (4mm) stacking height are shown on page 30.
Part Numbers are RoHS compliant.

Catalog 889092
Revised 9-06

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Japan: 81-44-844-8013
UK: 44-141-810-8967

0.6mm Free Height Standard Plugs, 0.6 [.024] Pitch

4H (4mm), 5H (5mm) 6H (6mm), 8H (8mm) and 12H (12mm)

Material and Finish

Housing — High temperature thermoplastic, 94V-0 rated

Contacts — Copper alloy; duplex plated 0.00020 [.000008] min. gold on contact area, 0.00100 [.000039] min. tin on solder area, with entire contact underplated 0.00130 [.000051] min. nickel

Related Product Data

Performance Characteristics — page 27

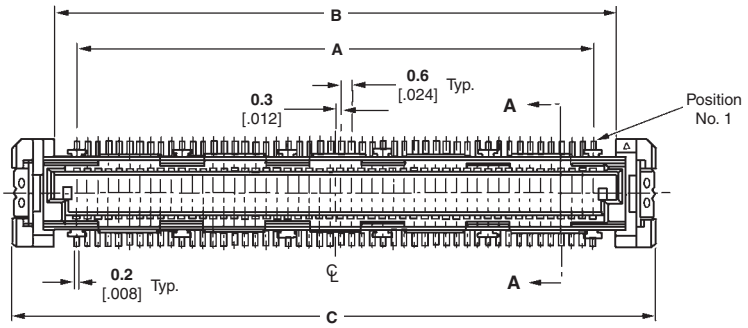
Stacking Height Combinations — page 28

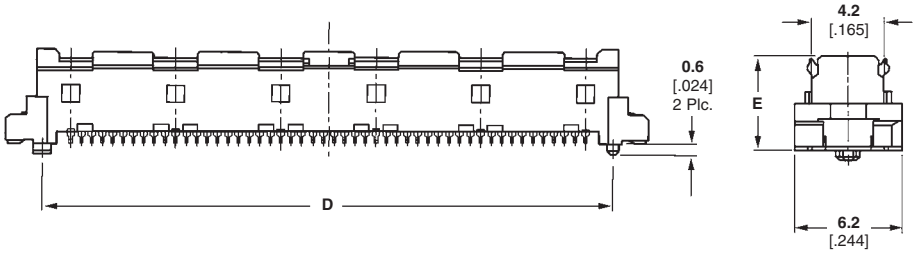
Mating Receptacles — pages 30, 31 & 34

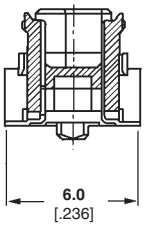
PC Board Layout — pages 38 & 39

Technical Documents (page 113)

Product Specification
108-5468







Section A - A

Stacking Height	No. of Positions	Dimensions					Part Numbers	
		A	B	C	D	E	Tray Packaged	Tape Packaged
4H	50	**14.4** .567	**17.0** .669	**21.7** .854	**17.6** .693	**3.45** .136	5316135-3	5353183-3
	70	**20.4** .803	**23.0** .906	**27.7** 1.091	**23.6** .929	**3.45** .136	5316135-5	—
	100	**29.4** 1.158	**32.0** 1.260	**36.7** 1.445	**32.6** 1.284	**3.45** .136	—	5353183-8
	140	**41.4** 1.630	**44.0** 1.732	**48.7** 1.917	**44.6** 1.756	**3.45** .136	1-5316135-0	1-5353183-0
	160	**47.4** 1.866	**50.0** 1.969	**54.7** 2.154	**50.6** 1.992	**3.45** .136	1-5316135-1	—
5H	50	**14.4** .567	**17.0** .669	**21.7** .854	**17.6** .693	**4.45** .175	—	5-5353692-3
6H	100	**29.4** 1.158	**32.0** 1.260	**36.7** 1.445	**32.6** 1.284	**5.45** .215	—	5353185-8
	140	**41.4** 1.630	**44.0** 1.732	**48.7** 1.917	**44.6** 1.756	**5.45** .215	—	1-5353185-0
8H	140	**41.4** 1.630	**44.0** 1.732	**48.7** 1.917	**44.6** 1.756	**7.45** .293	—	1-5353187-0
	160	**47.4** 1.866	**50.0** 1.969	**54.7** 2.154	**50.6** 1.992	**7.45** .293	—	1-5353187-1
12H	50	**14.4** .567	**17.0** .669	**21.7** .854	**17.6** .693	**11.25** .443	6318026-3	—

Note: Part Numbers are RoHS compliant

Catalog 889092
Revised 9-06

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UK: 44-141-810-8967

0.6mm Free Height GIGA Plugs, 0.6 [.024] Pitch

4H (4mm), 5H (5mm), 6H (6mm), 7H (7mm), 8H (8mm) and 12H (12mm)

Note: All GIGA plugs include ground plates that mate with receptacles with common ground contacts..

Material and Finish

Housing — High temperature thermoplastic, 94V-0 rated

Contacts — Copper alloy; duplex plated 0.00020 [.000008] min. gold on contact area, 0.00100 [.000039] min. tin on solder area, with entire contact underplated 0.00130 [.000051] min. nickel

Ground Plates — Phosphor bronze, plated 0.00300-0.00500 [.000120-.000200] tin over 0.00050 [.000020] copper

Related Product Data

Performance Characteristics — page 27

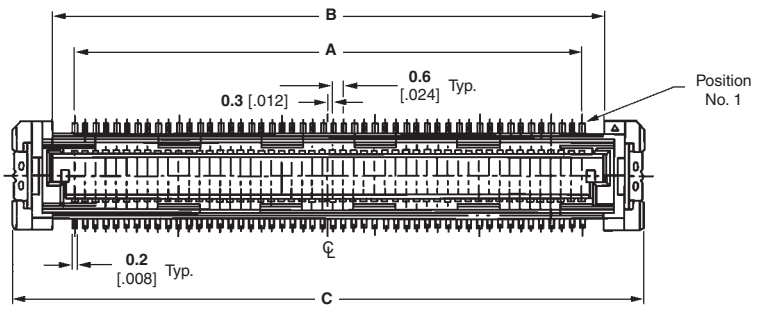
Stacking Height Combinations— page 28

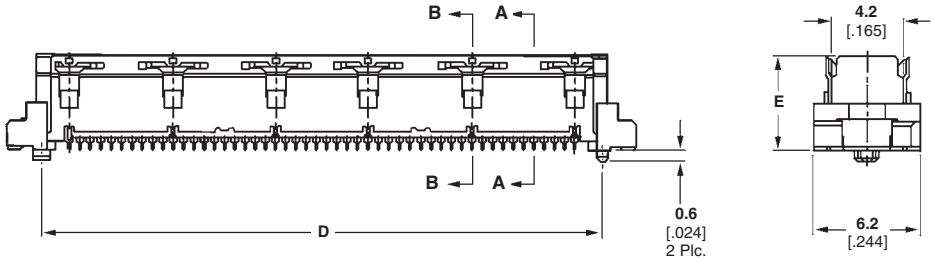
Mating Receptacles — pages 30, 31, & 34

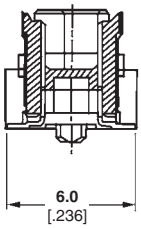
PC Board Layout — pages 23 & 24

Technical Documents (page 113)

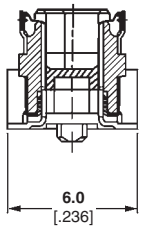
Product Specification
108-5468







Section A - A (Signal Position)



Section B - B (Ground Position)

Stacking Height	No. of Positions	Dimensions					Part Numbers	
		A	B	C	D	E	Tray Packaged	Tape Packaged
4H	50	**14.4** .567	**17.0** .669	**21.7** .854	**17.6** .693	**3.45** .136	5316076-3	—
	70	**20.4** .803	**23.0** .906	**27.7** 1.091	**23.6** .929	**3.45** .136	—	5-5353184-5
	140	**41.4** 1.630	**44.0** 1.732	**48.7** 1.917	**44.6** 1.756	**3.45** .136	1-5316076-0	1-5353184-0
	160	**47.4** 1.866	**50.0** 1.969	**54.7** 2.154	**50.6** 1.992	**3.45** .136	1-5316559-1	—
5H	160	**47.4** 1.866	**50.0** 1.969	**54.7** 2.154	**50.6** 1.992	**4.45** .175	1-5353471-1	—
6H	80	**23.4** .921	**26.0** 1.024	**30.7** 1.209	**26.6** 1.047	**5.45** .215	—	5353186-6
	140	**41.4** 1.630	**44.0** 1.732	**48.7** 1.917	**44.6** 1.756	**5.45** .215	—	1-5353186-0
7H	80	**23.4** .921	**26.0** 1.024	**30.7** 1.209	**26.6** 1.047	**6.45** .254	—	5353831-6
	140	**41.4** 1.630	**44.0** 1.732	**48.7** 1.917	**44.6** 1.756	**6.45** .254	—	1-5353831-0
8H	140	**41.4** 1.630	**44.0** 1.732	**48.7** 1.917	**44.6** 1.756	**7.45** .293	—	1-5353188-0
	160	**47.4** 1.866	**50.0** 1.969	**54.7** 2.154	**50.6** 1.992	**7.45** .293	1-5316562-1	1-5353188-1
12H	140	**41.4** 1.630	**44.0** 1.732	**48.7** 1.917	**44.6** 1.756	**11.25** .443	6473225-1	—

Note: Part Numbers are RoHS compliant.

Catalog 889092
Revised 9-06

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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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Japan: 81-44-844-8013
UK: 44-141-810-8967

0.6mm Free Height Bridged Receptacle, 0.6 [.024] Pitch

4H and 12H Dual-Row

Note: Receptacle includes common ground contacts that mate with standard plug assemblies or GIGA plug assemblies with ground plates.

Material and Finish

Housing — High temperature thermoplastic, 94V-0 rated

Signal Contacts — Copper alloy; duplex plated 0.00020 [.000008] min. gold on contact area, 0.00005 [.000002] min. gold on solder area, with entire contact underplated 0.00130 [.000051] min. nickel

Ground Contacts — Copper alloy; duplex plated 0.00020 [.000008] min. gold on contact area, 0.00100 [.000039] min. tin on solder area, with entire contact underplated 0.00130 [.000051] min. nickel

Related Product Data

Performance Characteristics — page 27

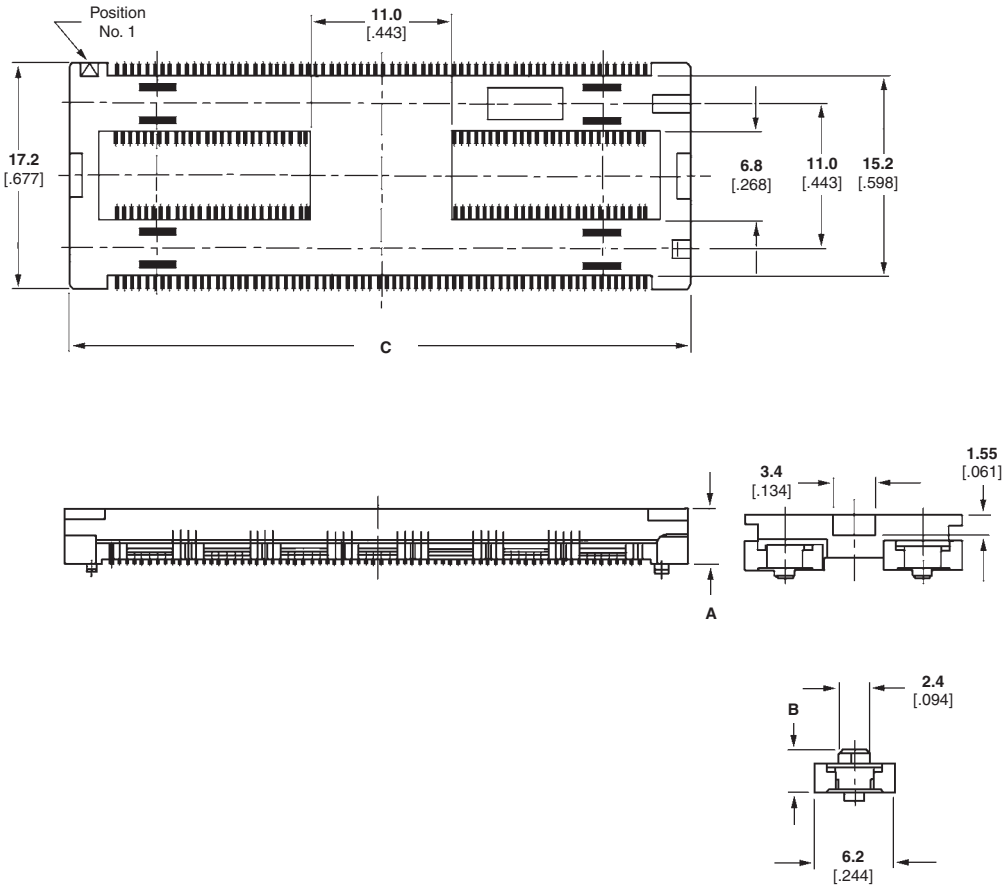
Stacking Height Combinations — page 28

Mating Plugs — pages 32, 33 & 35

PC Board Layout — page 37

Technical Documents (page 113)

Product Specification
108-5468



Dimensions			Ground Plate	Packaging	Positions	Height	Part Number
A	B	C					
4.25 .167	**3.25** .128	**48.70** 1.917	Yes	Tape	280	4H	1-5353206-0
4.25 .167	**3.25** .128	**48.70** 1.917	Yes	Tray	280	4H	1-5353729-0
12.25 .482	**11.25** .443	**48.70** 1.917	Yes	Tray	280	12H	1-5353800-0
4.25 .167	**3.25** .128	**54.70** 2.154	Yes	Tray	320	4H	6-6318157-1

Note: Part Numbers are RoHS compliant.

Catalog 889092
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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

0.6mm Free Height Bridged Plugs, 0.6 [.024] Pitch

4H, 6H, 8H and 12H Dual-Row

Material and Finish

Housing — High temperature thermoplastic, 94V-0 rated

Contacts — Copper alloy; duplex plated 0.00020 [.000008] min. gold on contact area, 0.00100 [.000039] min. tin on solder area, with entire contact underplated 0.00130 [.000051] min. nickel

Related Product Data

Performance Characteristics — page 27

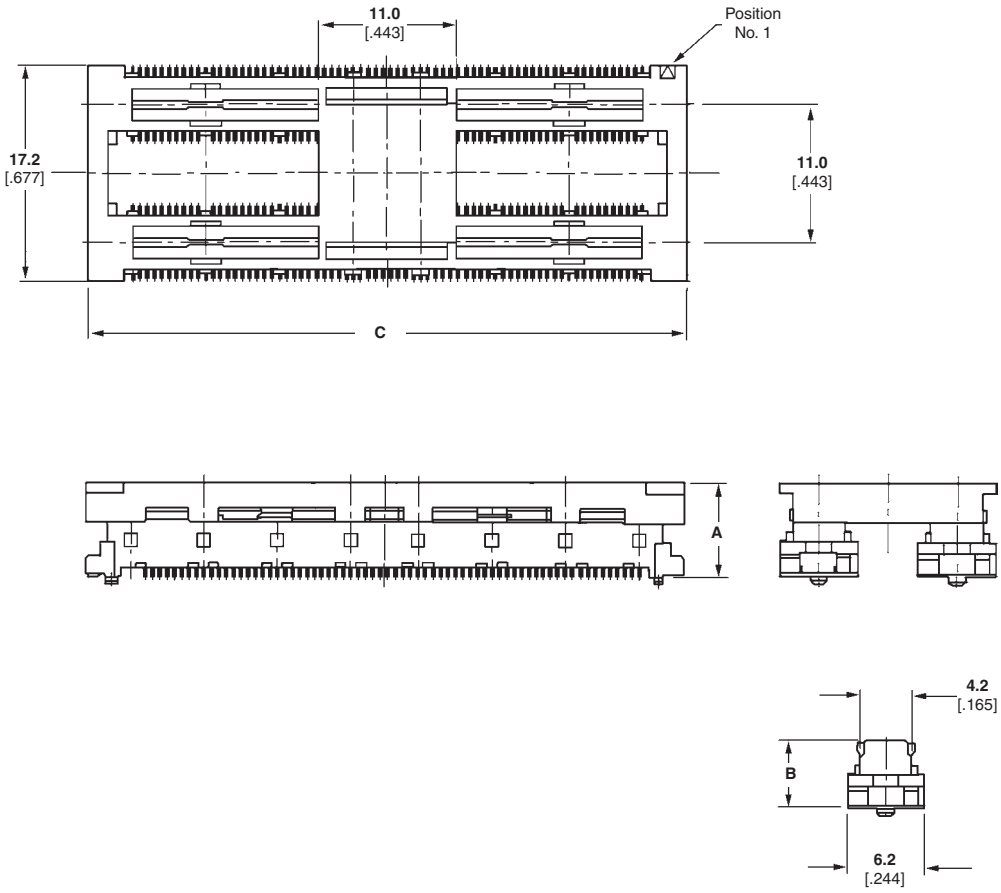
Stacking Height Combinations — page 28

Mating Receptacles — pages 30 & 34

PC Board Layout — page 39

Technical Documents (page 113)

Product Specification
108-5468



Dimensions			Ground Plate	Packaging	Positions	Height	Part Number
A	B	C					
5.45 .215	**3.45** .136	**48.70** 1.917	Yes	Tape	280	4H	1-5353231-0
5.45 .215	**3.45** .136	**48.70** 1.917	No	Tape	280	4H	1-5353284-0
5.45 .215	**3.45** .136	**48.70** 1.917	Yes	Tray	280	4H	1-5353720-0
7.45 .293	**5.45** .215	**48.70** 1.917	Yes	Tape	280	6H	1-5353232-0
7.45 .293	**5.45** .215	**48.70** 1.917	Yes	Tray	280	6H	1-6123086-0
7.45 .293	**5.45** .215	**48.70** 1.917	No	Tape	280	6H	1-5353134-0
9.45 .372	**7.45** .293	**48.70** 1.917	No	Tape	280	8H	1-5353135-0
9.45 .372	**7.45** .293	**48.70** 1.917	Yes	Tape	280	8H	1-5353233-0
9.45 .372	**7.45** .293	**48.70** 1.917	Yes	Tray	280	8H	1-5353727-0
13.45 .530	**11.45** .451	**48.70** 1.917	Yes	Tray	280	12H	1-6123098-0
5.45 .215	**3.45** .136	**54.70** 2.154	Yes	Tray	320	4H	6-6318151-1
9.45 .372	**7.45** .293	**54.70** 2.154	Yes	Tray	320	8H	6-6318154-1

Note: Part Numbers are RoHS compliant.

Catalog 889092
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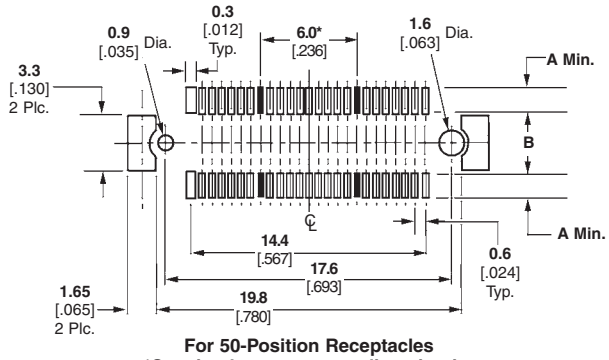
UK: 44-141-810-8967

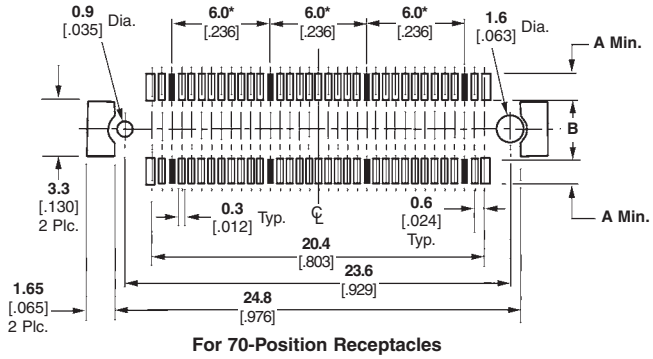
Recommended PC Board Layouts and Grounding Circuit Positions

For 50-, 70-, 80- and 100-Position Receptacles

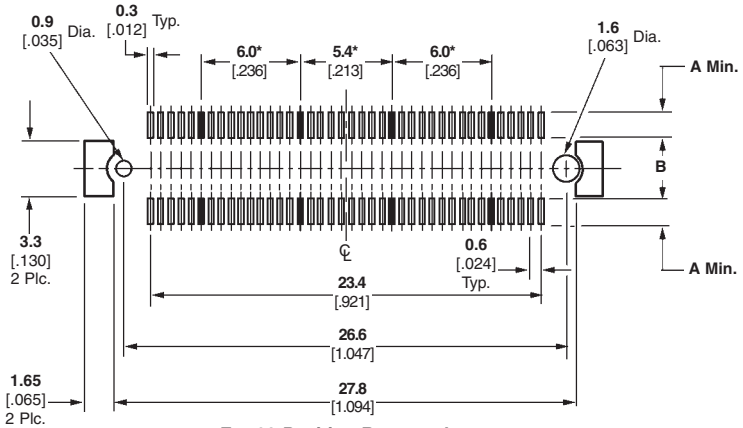
Stacking Height	Dimensions	
	A	B
4H	**1.5** .059	**3.6** .142
8H	**1.75** .069	**3.8** .150
12H	**1.75** .069	**3.8** .150



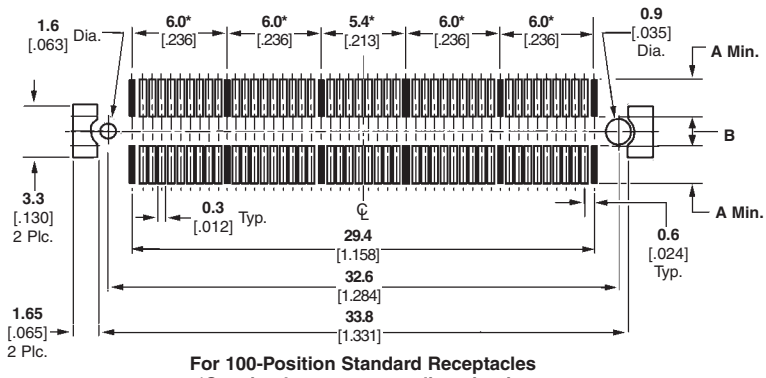
For 50-Position Receptacles
***Spacing between grounding circuits**



For 70-Position Receptacles
***Spacing between grounding circuits**



For 80-Position Receptacles
***Spacing between grounding circuits**



For 100-Position Standard Receptacles
***Spacing between grounding circuits**

Catalog 889092
Revised 9-06

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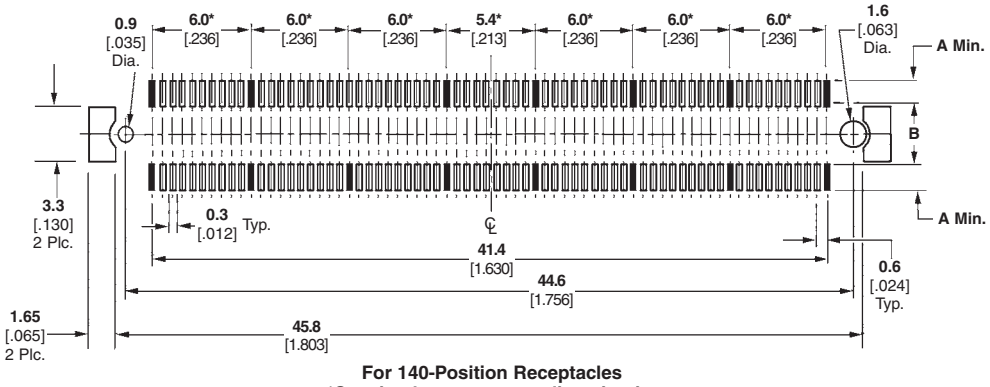
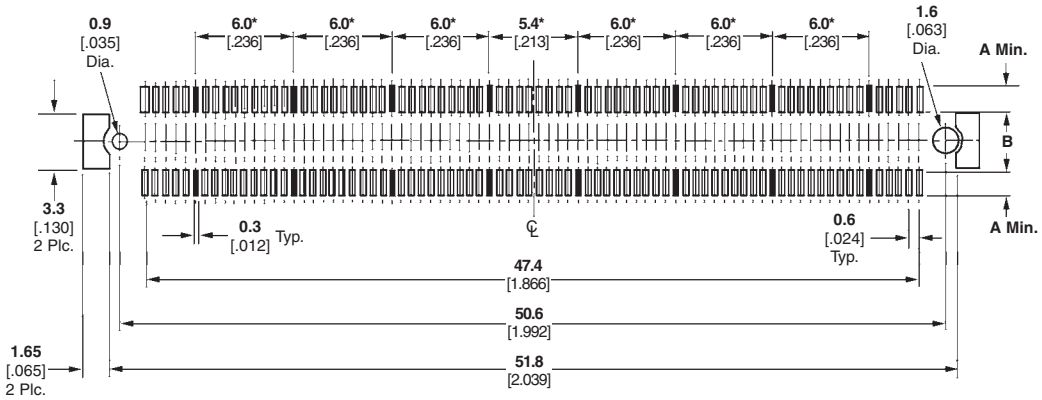
Recommended PC Board Layouts and Grounding Circuit Positions (Continued)

For 140-, 160-Position Receptacles and 280-Position Bridge Receptacle

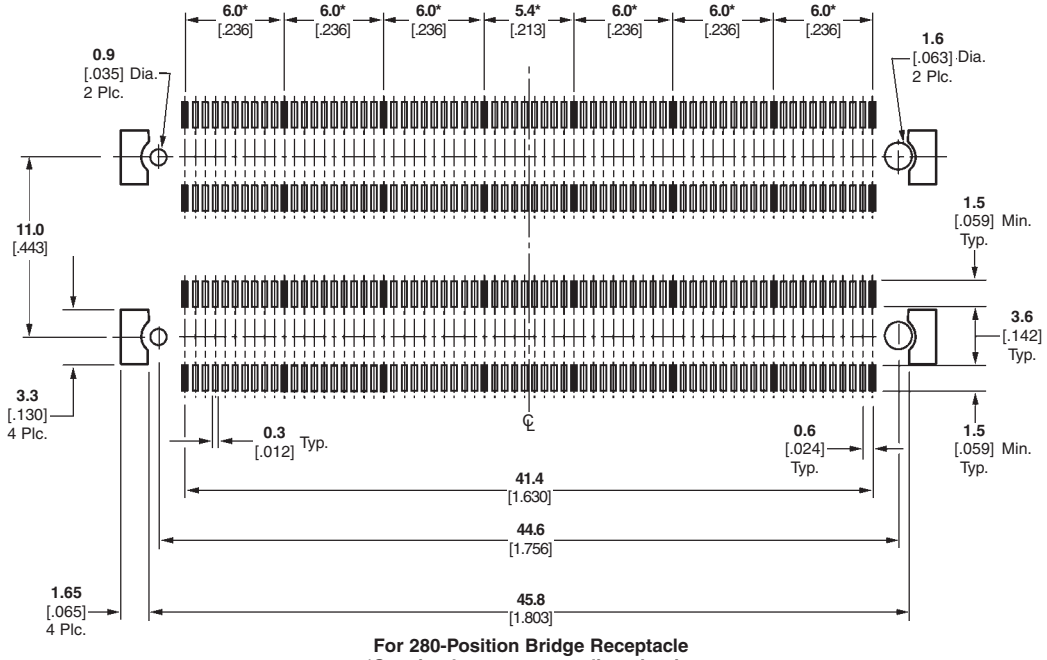
Stacking Height	Dimensions	
	A	B
4H	1.5 .059	3.6 .142
12H	1.75 .069	3.8 .150



For 140-Position Receptacles
***Spacing between grounding circuits**



For 160-Position Receptacles
***Spacing between grounding circuits**



For 280-Position Bridge Receptacle
***Spacing between grounding circuits**

0.6mm Free Height (FH) and GIGA Connectors

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Revised 9-06

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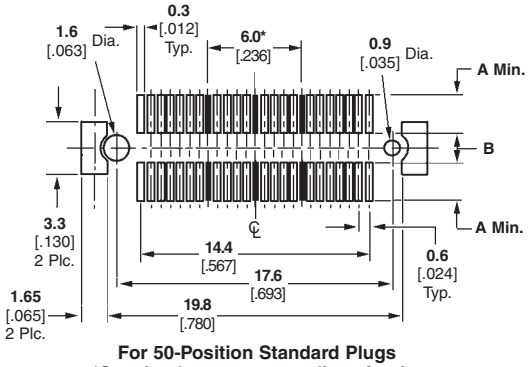
Japan: 81-44-844-8013
UK: 44-141-810-8967

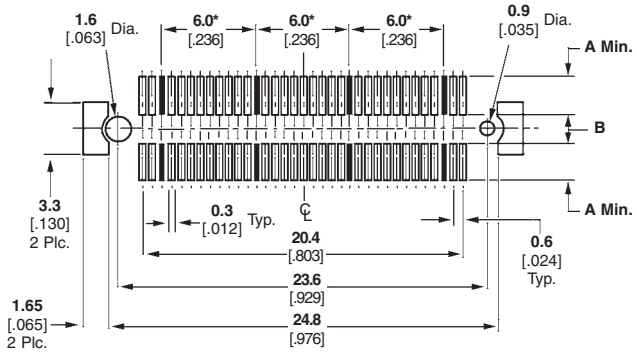
Recommended PC Board Layouts and Grounding Circuit Positions (Continued)

For 50-, 70-, 100- and 140-Position Standard Plugs

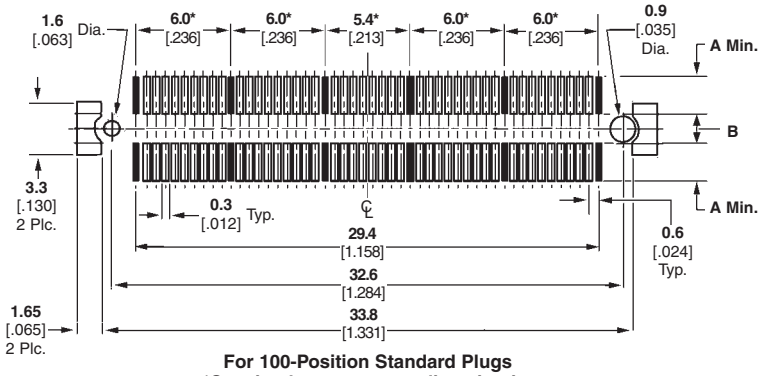
Stacking Height	Dimensions	
	A	B
4H	**2.35** .093	**1.9** .075
5H	**1.8** .071	**3.4** .134
6H	**1.8** .071	**3.4** .134
8H	**1.8** .071	**3.4** .134



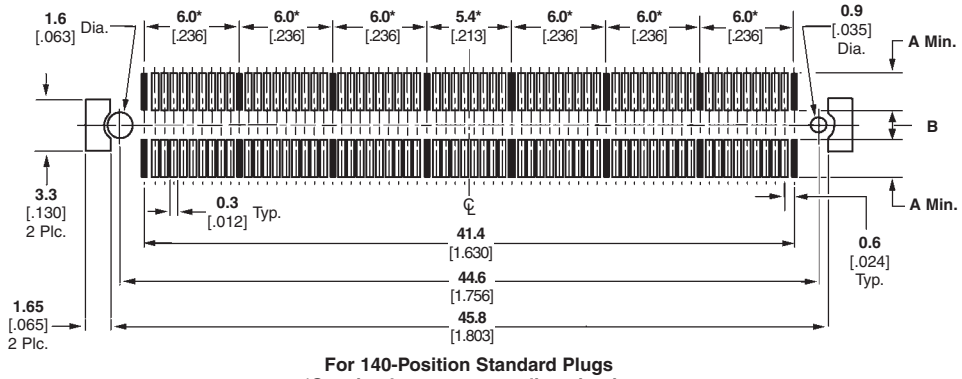
For 50-Position Standard Plugs
***Spacing between grounding circuits**



For 70-Position Standard Plugs
***Spacing between grounding circuits**



For 100-Position Standard Plugs
***Spacing between grounding circuits**



For 140-Position Standard Plugs
***Spacing between grounding circuits**

Catalog 889092
Revised 9-06

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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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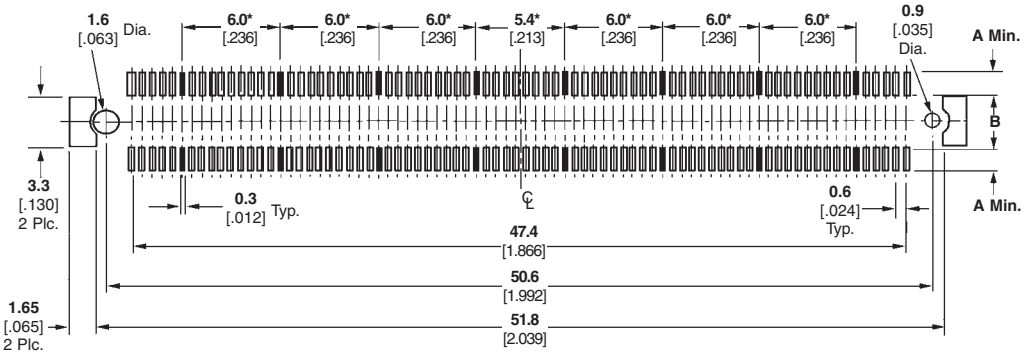
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

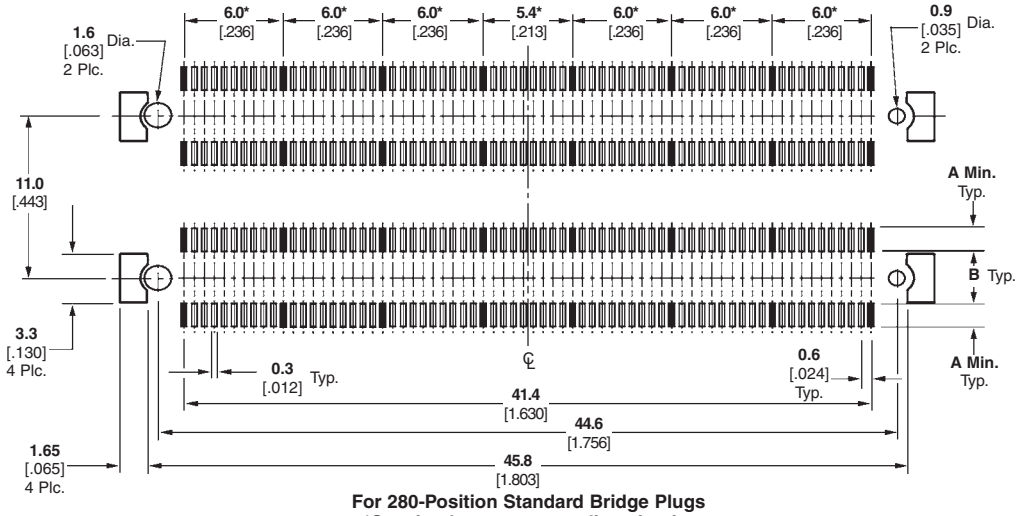
Recommended PC Board Layouts and Grounding Circuit Positions (Continued)

For 160-Position Standard Plugs and 280-Position Standard Bridge Plugs

Stacking Height	Dimensions	
	A	B
4H	**2.35** .093	**1.9** .075
6H	**1.8** .071	**3.4** .134
8H	**1.8** .071	**3.4** .134



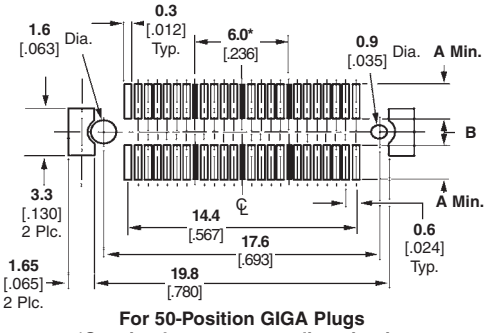
For 160-Position Standard Plugs
***Spacing between grounding circuits**



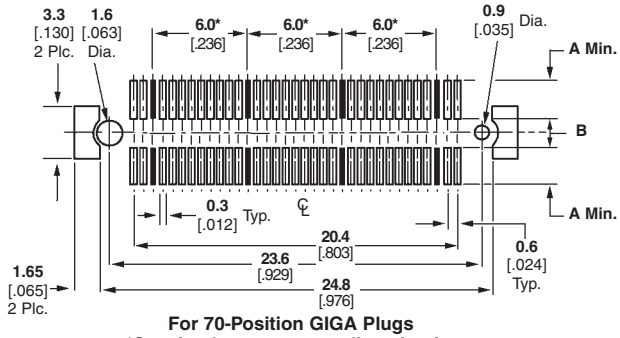
For 280-Position Standard Bridge Plugs
***Spacing between grounding circuits**

For 50-, 70- and 80-Position GIGA Plugs

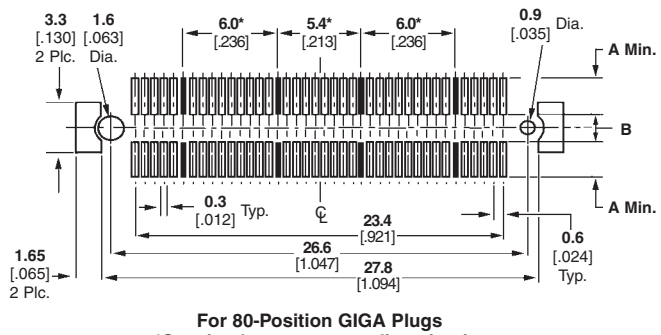
Stacking Height	Dimensions	
	A	B
4H	**2.35** .093	**1.9** .075
6H	**1.8** .071	**3.4** .134
7H	**1.8** .071	**3.4** .134



For 50-Position GIGA Plugs
***Spacing between grounding circuits**



For 70-Position GIGA Plugs
***Spacing between grounding circuits**



For 80-Position GIGA Plugs
***Spacing between grounding circuits**

0.6mm Free Height (FH) and GIGA Connectors

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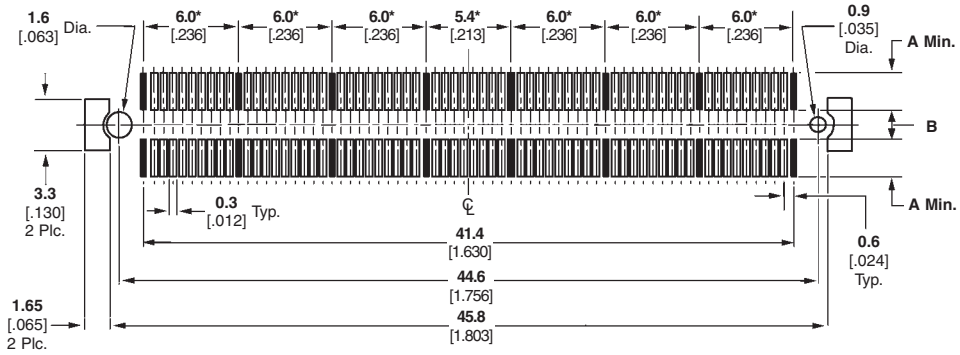
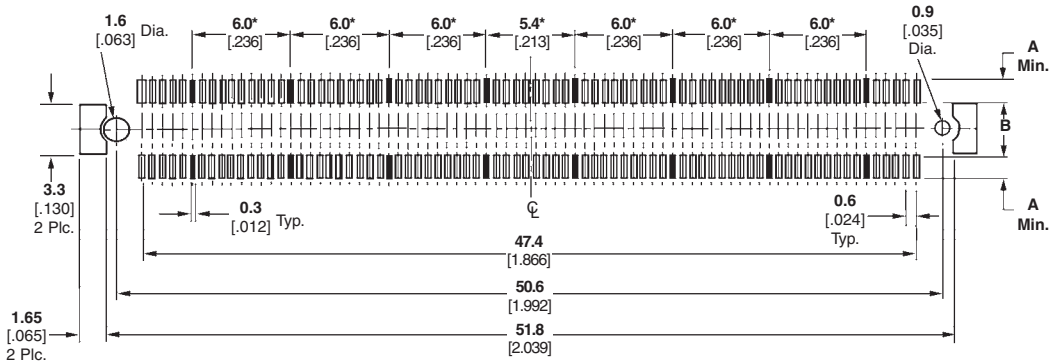
Recommended PC Board Layouts and Grounding Circuit Positions (Continued)

For 140- and 160-position GIGA Plugs and 280-Position GIGA Bridge Plugs

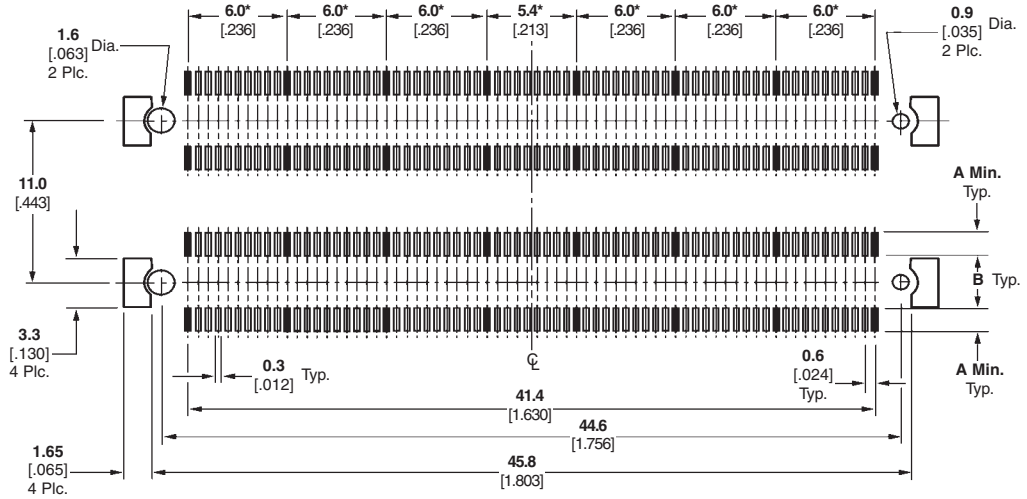
Stacking Height	Dimensions	
	A	B
4H	**2.35** .093	**1.9** .075
5H	**1.8** .071	**3.4** .134
6H	**1.8** .071	**3.4** .134
7H	**1.8** .071	**3.4** .134
8H	**1.8** .071	**3.4** .134



For 140-Position GIGA Plugs
***Spacing between grounding circuits**



For 160-Position GIGA Plugs
***Spacing between grounding circuits**



For 280-Position GIGA Bridge Plugs
***Spacing between grounding circuits**

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Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001
Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

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