



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



Electronics

Stacking Height Guide for Parallel Board-to-Board Applications

Table with columns for Stacking Height (mm/inch), Connector Description, Pitch, and Connector Sizes (No. of Positions) from 10 to 440. Includes various connector types like .4mm Fine Stack, .5mm Free Height, etc.



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



Electronics

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

Continuation of the table from page 3, showing connector sizes from 54 to 440.



Global Contacts

Americas

Argentina - Buenos Aires
Phone: +54-11-4733-2200
Fax: +54-11-4733-2211

Brazil - 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

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

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

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

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

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

New Zealand - Auckland
Phone: +64-9-634-4580
Fax: +64-9-634-4586

Philippines - Makati City
Phone: +632-848-0171
Fax: +632-867-8661

People's Republic of China
Hong Kong
Phone: +852-2735-1628
Fax: +852-2735-0243

Shanghai
Phone: +86-21-64857333/64850602
Fax: +86-21-64856222/54260190

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

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

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

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

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

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

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

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

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

France - Cergy-Pontoise
Phone: +33-1-3420-8888
Fax: +33-1-3420-8600

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

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

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

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

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

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

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

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

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

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

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

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

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

Netherlands - 's-Hertogenbosch
Phone: +31-73-6246-999
Fax: +31-73-6246-998

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

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

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

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

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

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

Spain - Barcelona
Phone: +34-93-291-0330
Fax: +34-93-201-7879

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

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

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

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

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

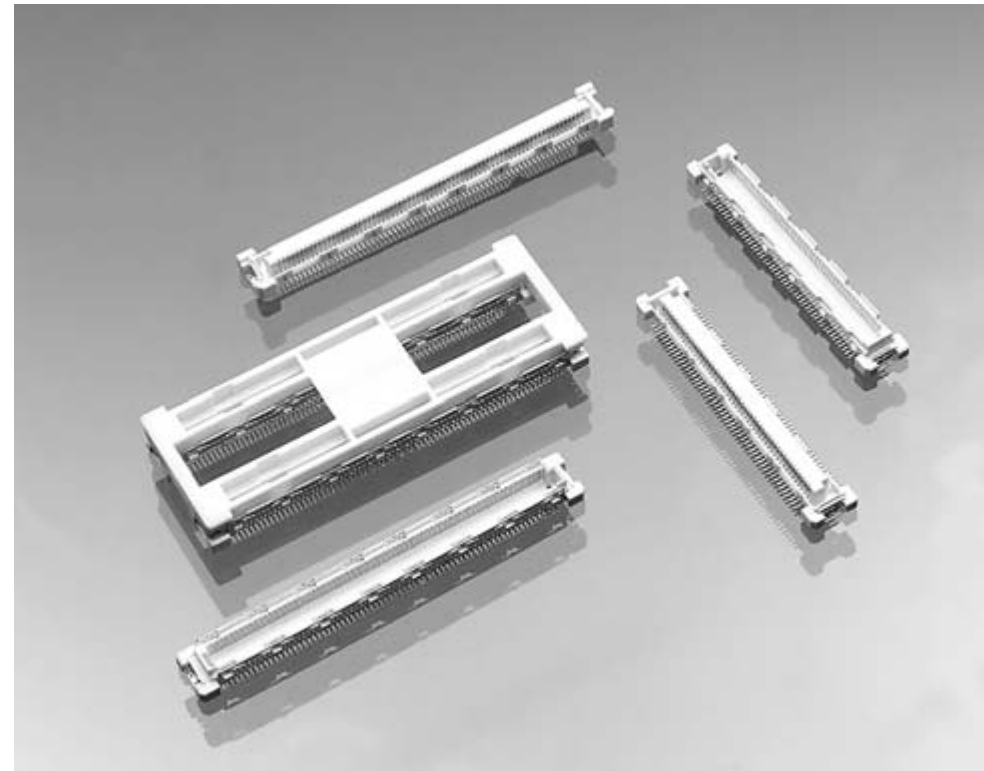
For Middle East/African Countries Not
Shown
Phone: +33-1-3420-8866
Fax: +33-1-3420-8300

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



0.6mm Free Height (FH) and GIGA Connectors



0.6mm Free Height (FH) and GIGA Connectors

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

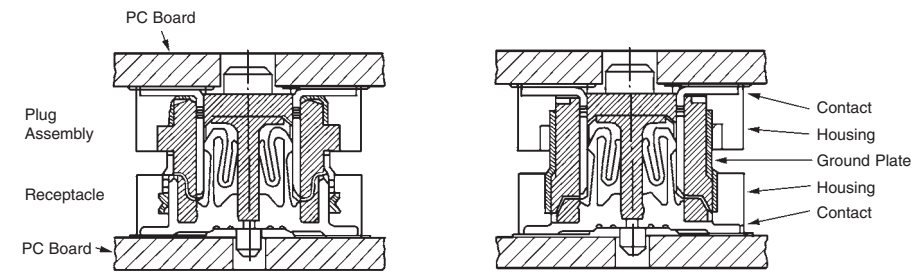
Operating Temperature — -40°C to +85°C

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

Plugs	Receptacles		
	4H	8H	12H
4H	<p>Pages 30, 34</p> <p>Receptacle 4.0 [.157] Plug</p> <p>Pages 32, 33 & 35</p>	N/A	<p>Page 31</p> <p>Receptacle 12.0 [.472] Plug</p> <p>Pages 32, 33 & 35</p>
5H	<p>Page 30</p> <p>Receptacle 5.0 [.197] Plug</p> <p>Pages 32, 33</p>	N/A	N/A
6H	<p>Pages 30, 34</p> <p>Receptacle 6.0 [.236] Plug</p> <p>Pages 32, 33 & 35</p>	<p>Page 31</p> <p>Receptacle 10.0 [.394] Plug</p> <p>Page 33</p>	<p>Page 31</p> <p>Receptacle 14.0 [.551] Plug</p> <p>Pages 32, 33 & 35</p>
7H	<p>Page 30</p> <p>Receptacle 7.0 [.276] Plug</p> <p>Page 33</p>	<p>Page 31</p> <p>Receptacle 11.0 [.433] Plug</p> <p>Page 33</p>	<p>Page 31</p> <p>Receptacle 15.0 [.591] Plug</p> <p>Page 33</p>
8H	<p>Pages 30, 34</p> <p>Receptacle 8.0 [.315] Plug</p> <p>Pages 32, 33 & 35</p>	N/A	<p>Page 31</p> <p>Receptacle 16.0 [.630] Plug</p> <p>Pages 32, 33 & 35</p>

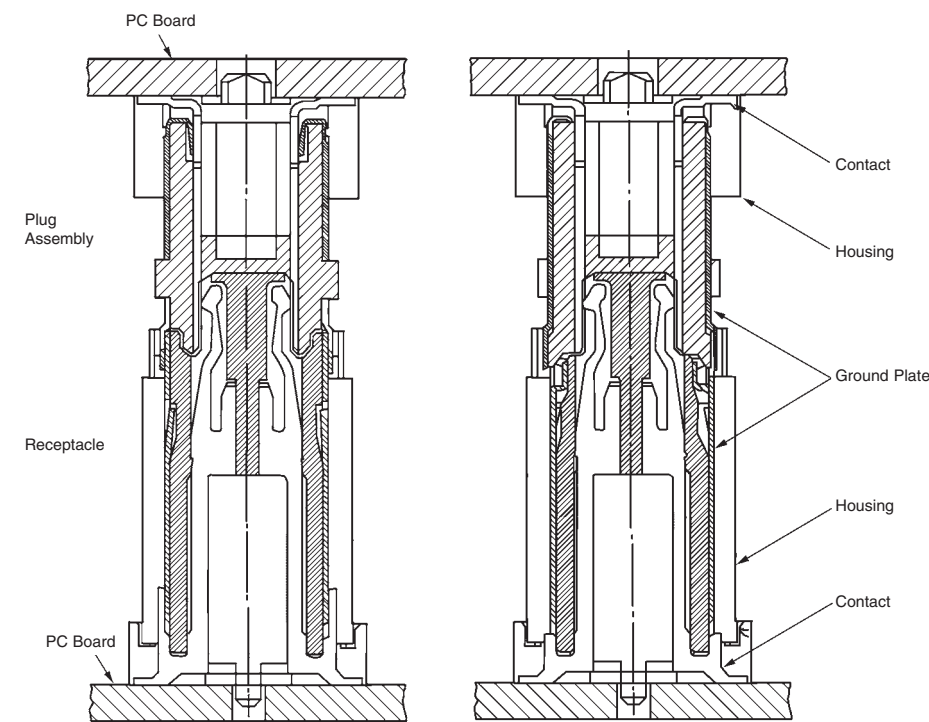
0.6mm Free Height (FH) and GIGA Connectors

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



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

0.6mm Free Height (FH) and
GIGA Connectors

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

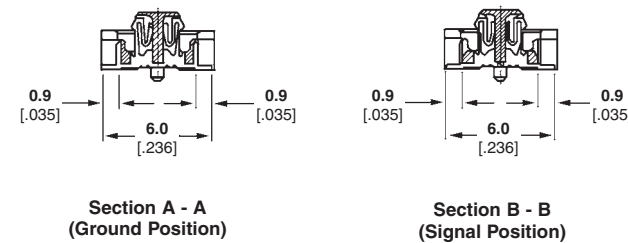
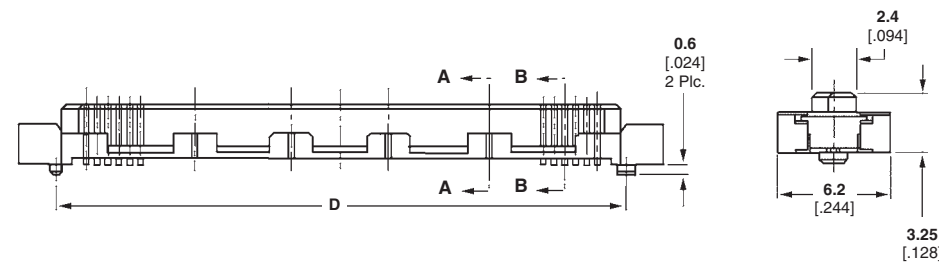
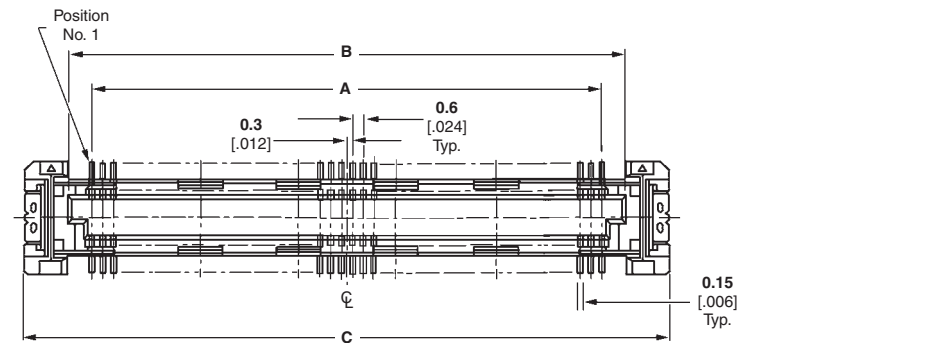
Stacking Height Combinations — page 28

Mating Plugs — pages 32, 33 & 35

PC Board Layout — pages 36 & 37

Technical Documents (page 113)

Product Specification
108-5468



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.

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

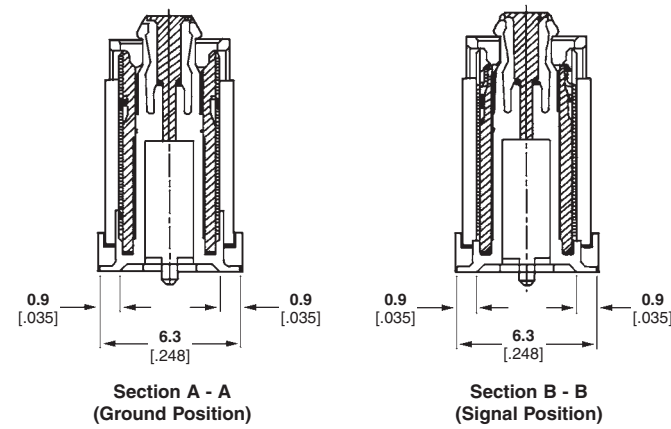
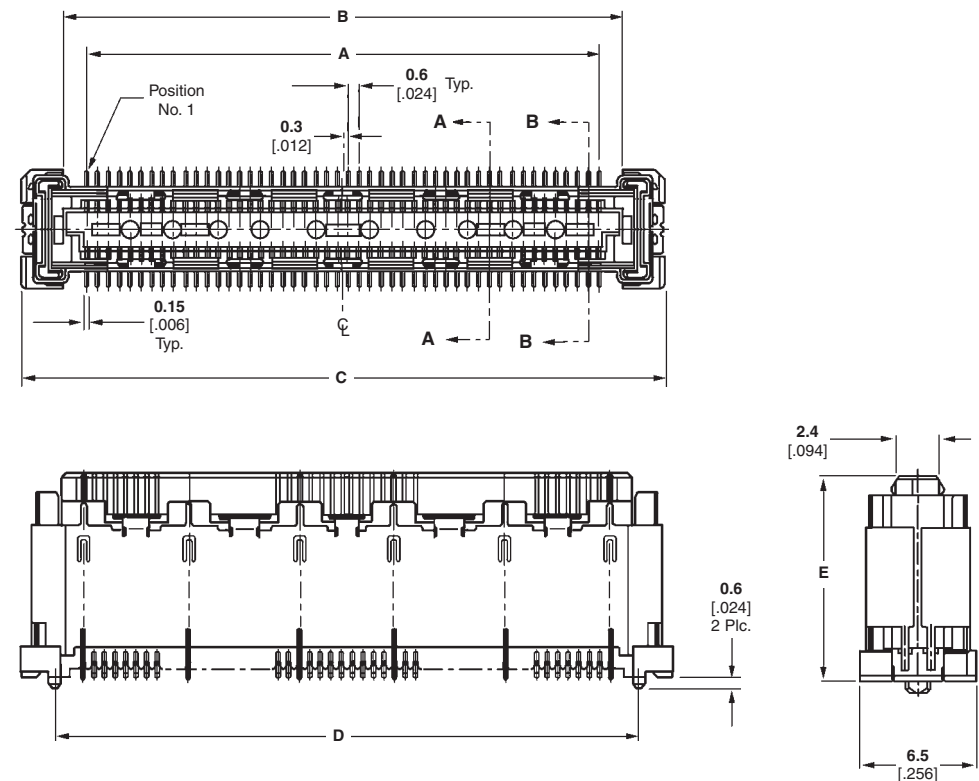
Stacking Height Combinations — page 28

Mating Plugs — pages 32 & 33

PC Board Layout — pages 36 & 37

Technical Documents (page 113)

Product Specification
108-5468



0.6mm Free Height (FH) and GIGA Connectors

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
	50	14.4 .567	17.0 .670	21.7 .854	17.6 .693	11.25 .443	6318029-3
12H	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.

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

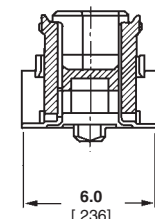
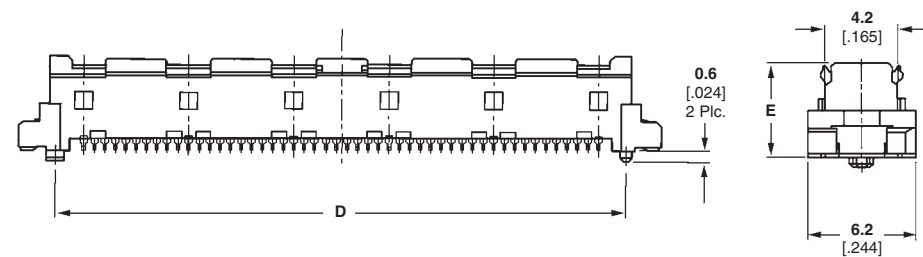
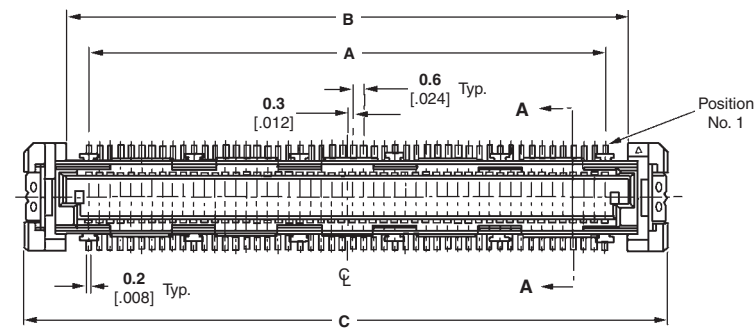
Technical Documents (page 113)

Product Specification
108-5468

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



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



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
	100	29.4 1.158	32.0 1.260	36.7 1.445	32.6 1.284	5.45 .215	—	5353185-8
6H	140	41.4 1.630	44.0 1.732	48.7 1.917	44.6 1.756	5.45 .215	—	1-5353185-0
	140	41.4 1.630	44.0 1.732	48.7 1.917	44.6 1.756	7.45 .293	—	1-5353187-0
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

**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 [0.00008] min. gold on contact area, 0.00100 [0.00039] min. tin on solder area, with entire contact underplated 0.00130 [0.00051] min. nickel

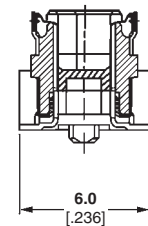
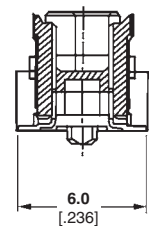
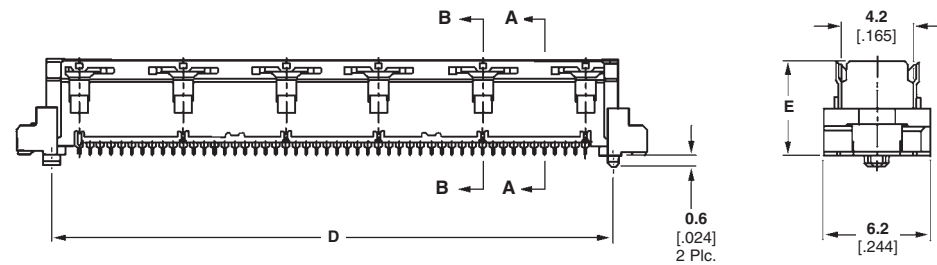
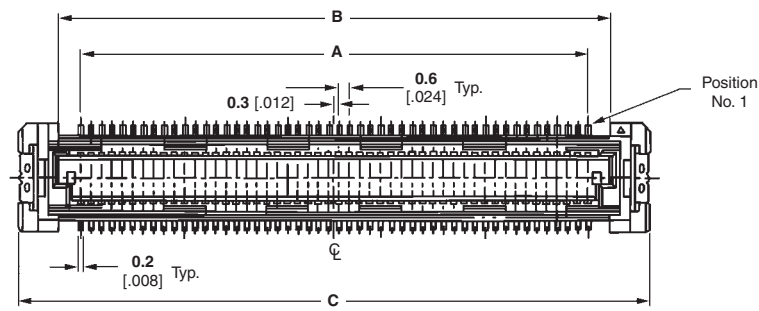
Ground Plates — Phosphor bronze, plated 0.00300-0.00500 [0.00120-.000200] tin over 0.00050 [0.00020] copper

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

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



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.

0.6mm Free Height (FH) and GIGA Connectors

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

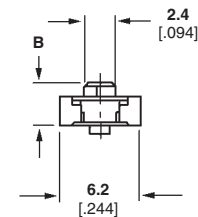
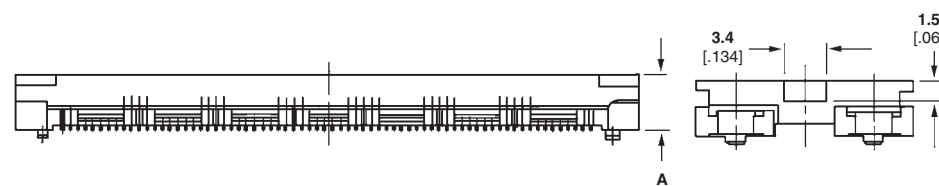
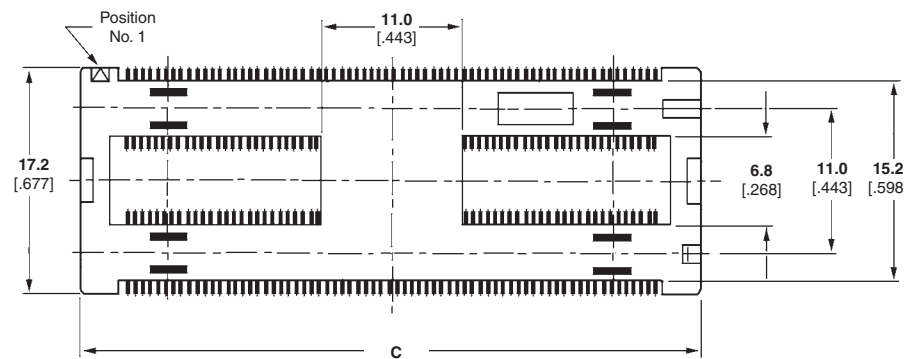
Stacking Height Combinations — page 28

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.

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

Material and Finish

Housing — High temperature thermoplastic, 94V-0 rated
Contacts — Copper alloy; duplex plated 0.00020 [0.00008] min. gold on contact area, 0.00100 [0.00039] min. tin on solder area, with entire contact underplated 0.00130 [0.00051] min. nickel

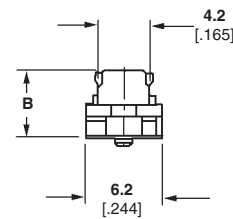
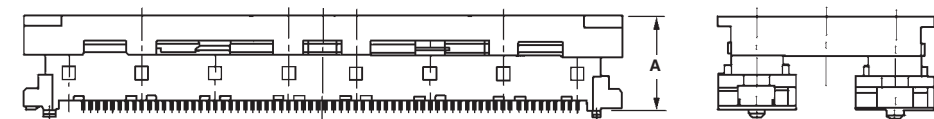
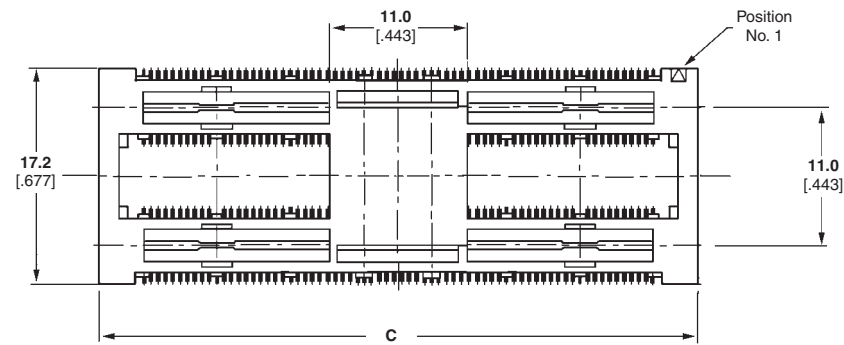
Related Product Data

- 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

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



0.6mm Free Height (FH) and GIGA Connectors

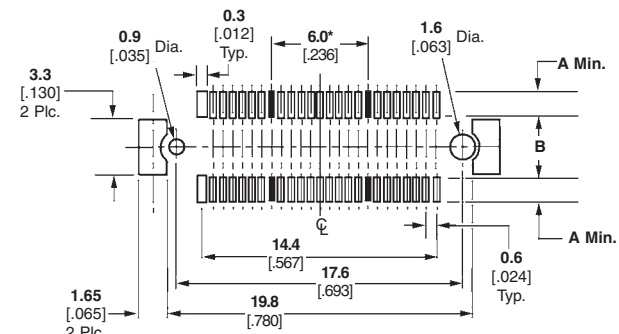
Dimensions			Ground Plate	Packaging	Positions	Height	Part Number
A	B	C					
5.45 .215	3.45 .136	48.70 1.917	Yes	Tape	280	4H	1-5353231-0
5.45 .215	3.45 .136	48.70 1.917	No	Tape	280	4H	1-5353284-0
5.45 .215	3.45 .136	48.70 1.917	Yes	Tray	280	4H	1-5353720-0
7.45 .293	5.45 .215	48.70 1.917	Yes	Tape	280	6H	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.

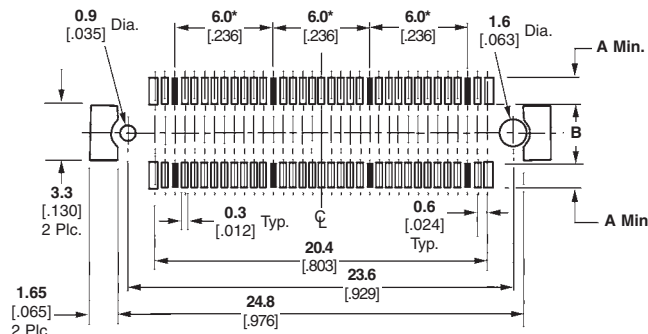
For 50-, 70-, 80- and 100-Position Receptacles

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

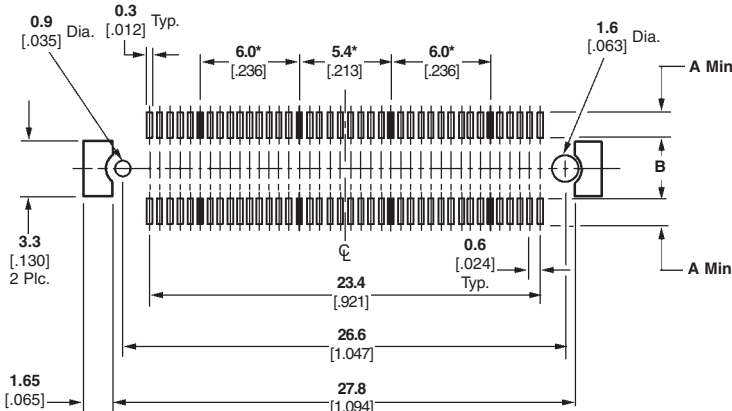
Recommended PC Board Layouts and Grounding Circuit Positions



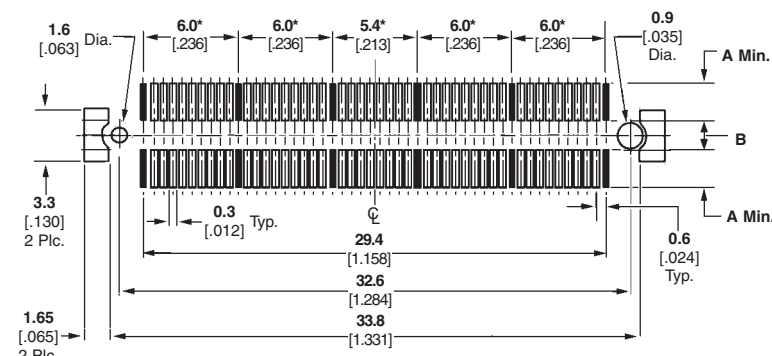
For 50-Position Receptacles
*Spacing between grounding circuits



For 70-Position Receptacles
*Spacing between grounding circuits



For 80-Position Receptacles
*Spacing between grounding circuits



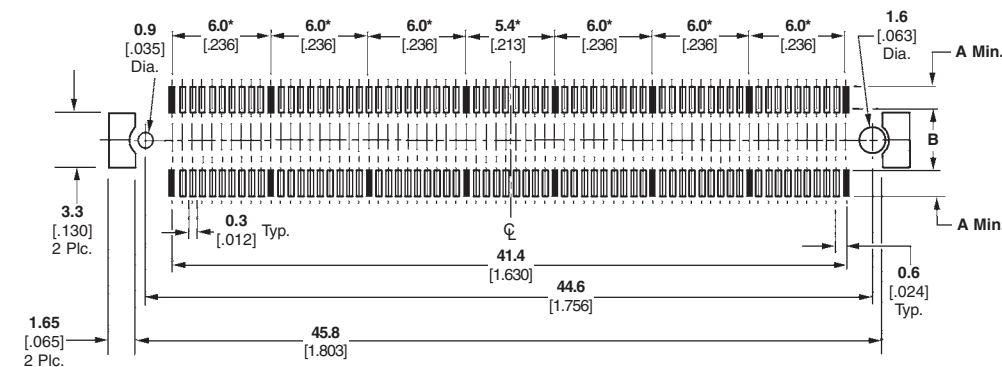
For 100-Position Standard Receptacles
*Spacing between grounding circuits

0.6mm Free Height (FH) and GIGA Connectors

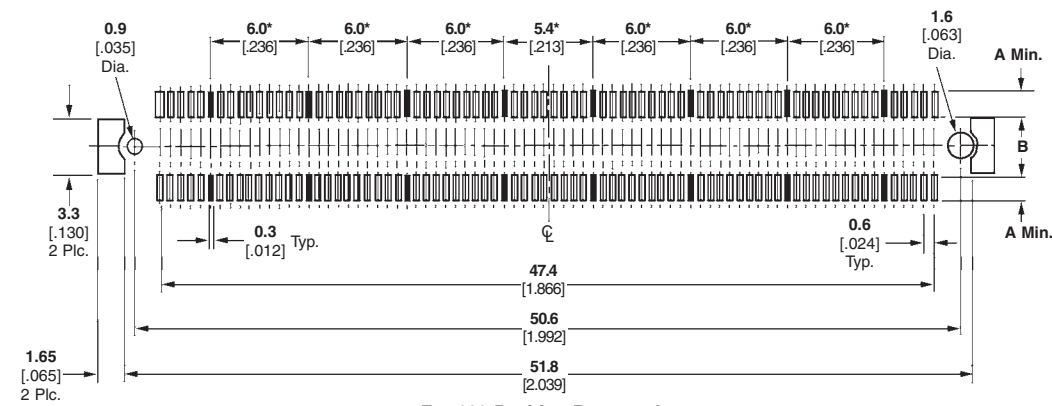
Recommended PC Board Layouts and Grounding Circuit Positions (Continued)

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

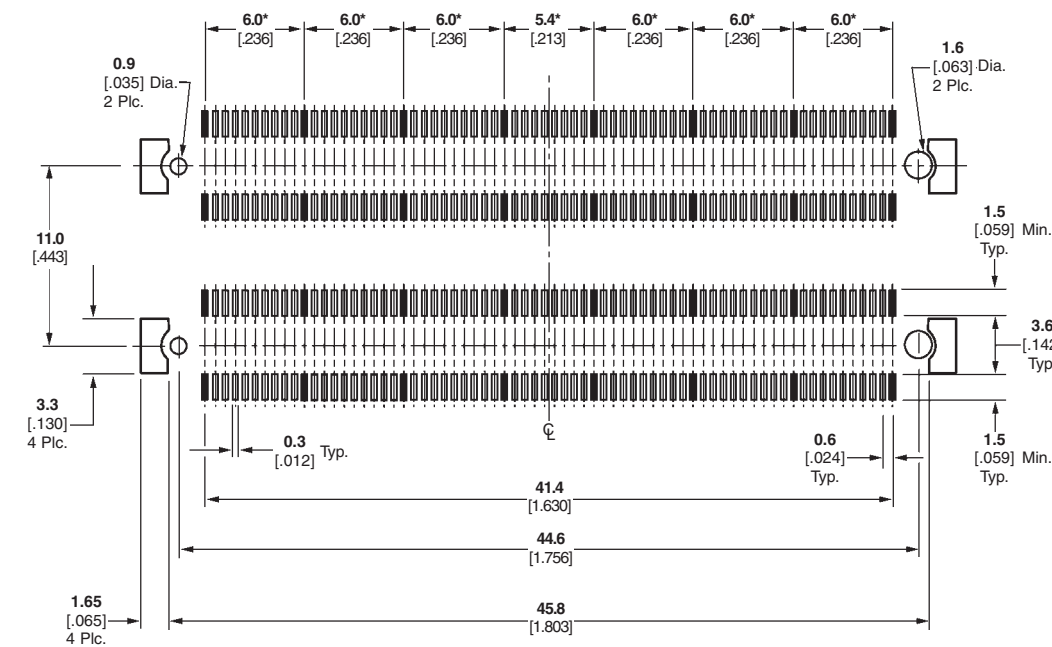
Stacking Height	Dimensions	
	A	B
4H	1.5 .059	3.6 .142
12H	1.75 .069	3.8 .150



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

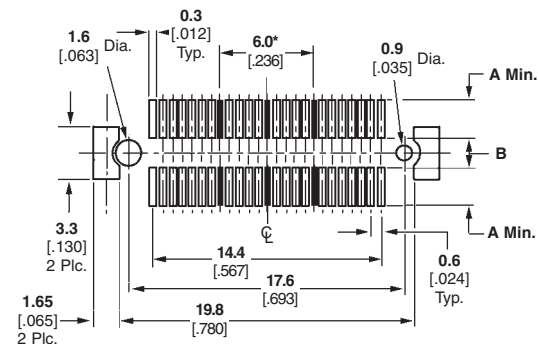
0.6mm Free Height (FH) and GIGA Connectors

0.6mm Free Height (FH) and GIGA Connectors

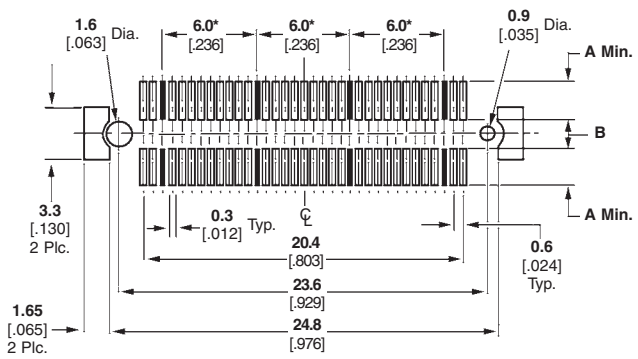
Recommended PC Board Layouts and Grounding Circuit Positions (Continued)

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

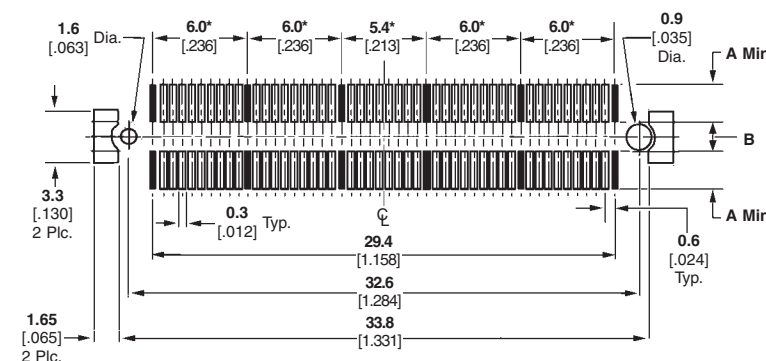
Stacking Height	Dimensions	
	A	B
4H	2.35 .093	1.9 .075
5H	1.8 .071	3.4 .134
6H	1.8 .071	3.4 .134
8H	1.8 .071	3.4 .134



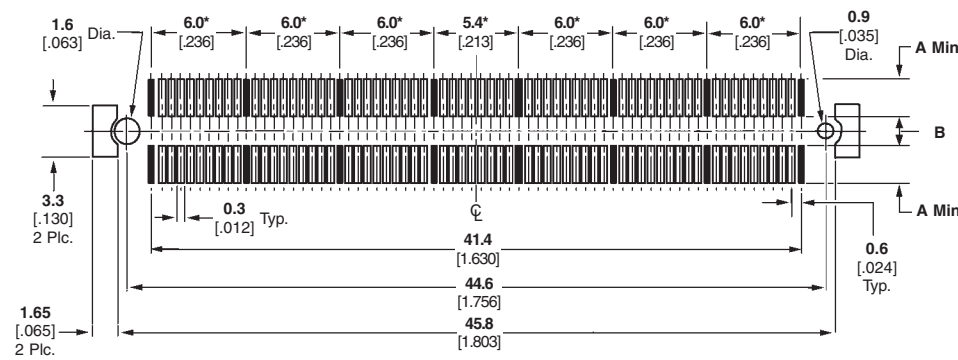
For 50-Position Standard Plugs
***Spacing between grounding circuits**



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



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



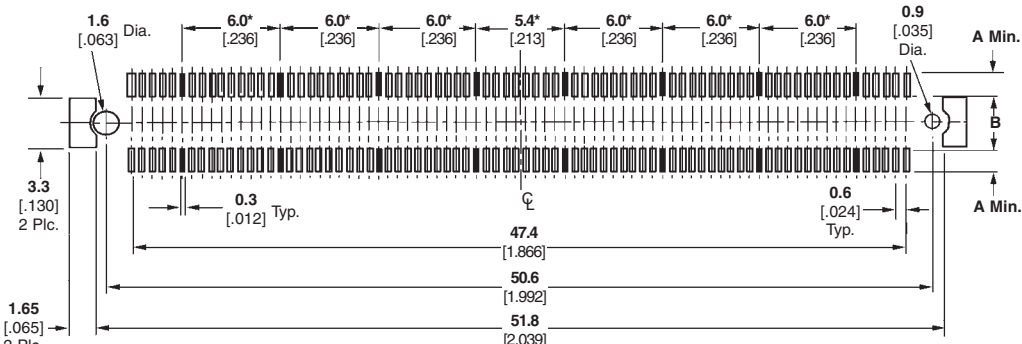
For 140-Position Standard Plugs
***Spacing between grounding circuits**

0.6mm Free Height (FH) and GIGA Connectors

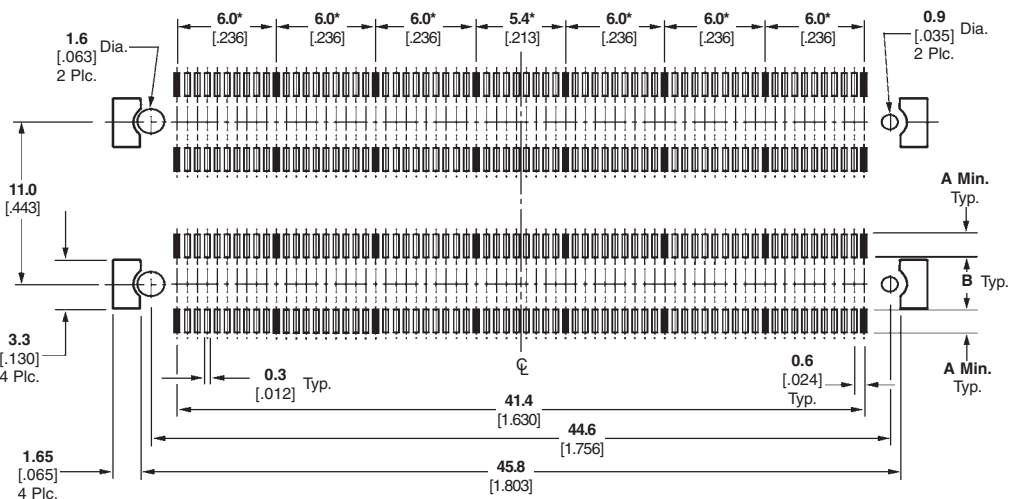
For 160-Position Standard Plugs and 280-Position Standard Bridge Plugs

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

Recommended PC Board Layouts and Grounding Circuit Positions (Continued)



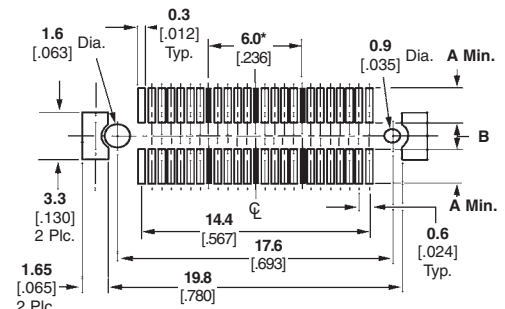
For 160-Position Standard Plugs
*Spacing between grounding circuits



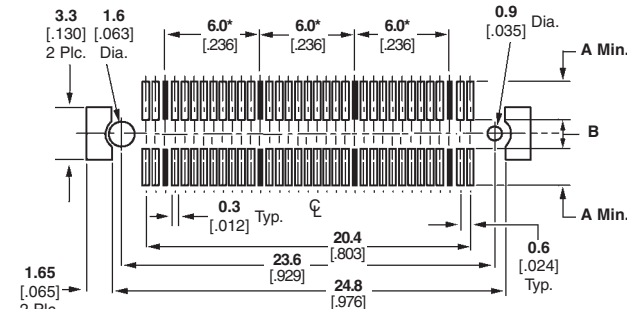
For 280-Position Standard Bridge Plugs
*Spacing between grounding circuits

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

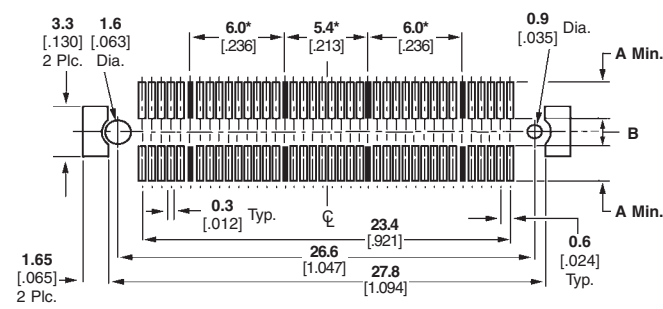
Stacking Height	Dimensions	
	A	B
4H	2.35 .093	1.9 .075
6H	1.8 .071	3.4 .134
7H	1.8 .071	3.4 .134



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

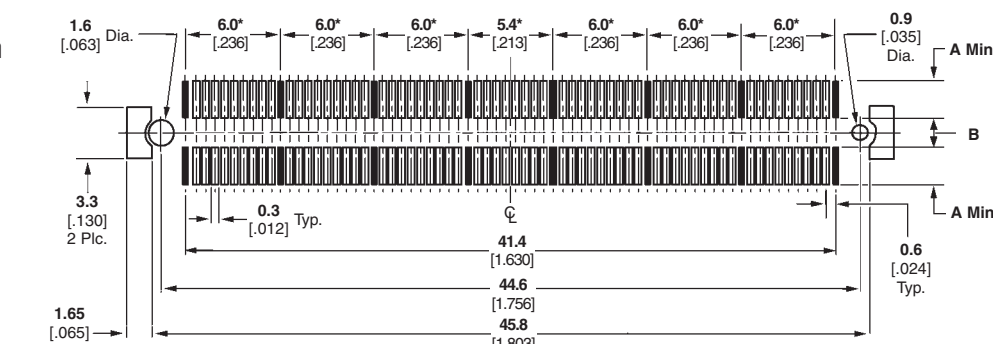
0.6mm Free Height (FH) and GIGA Connectors

0.6mm Free Height (FH) and GIGA Connectors

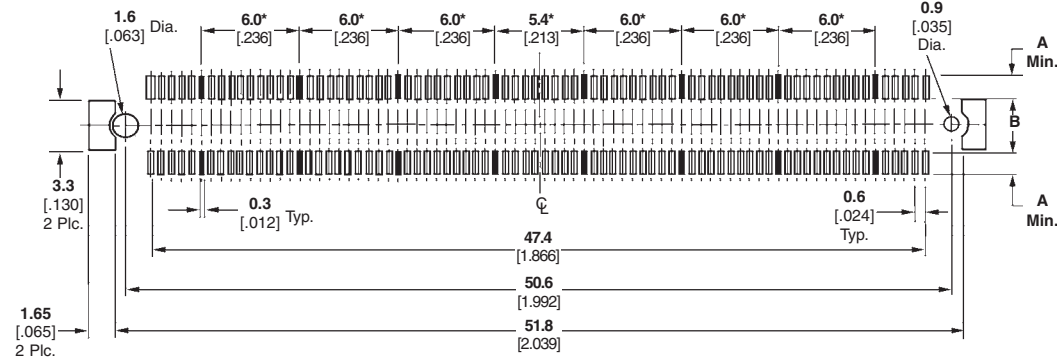
For 140- and 160-position GIGA Plugs and 280-Position GIGA Bridge Plugs

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

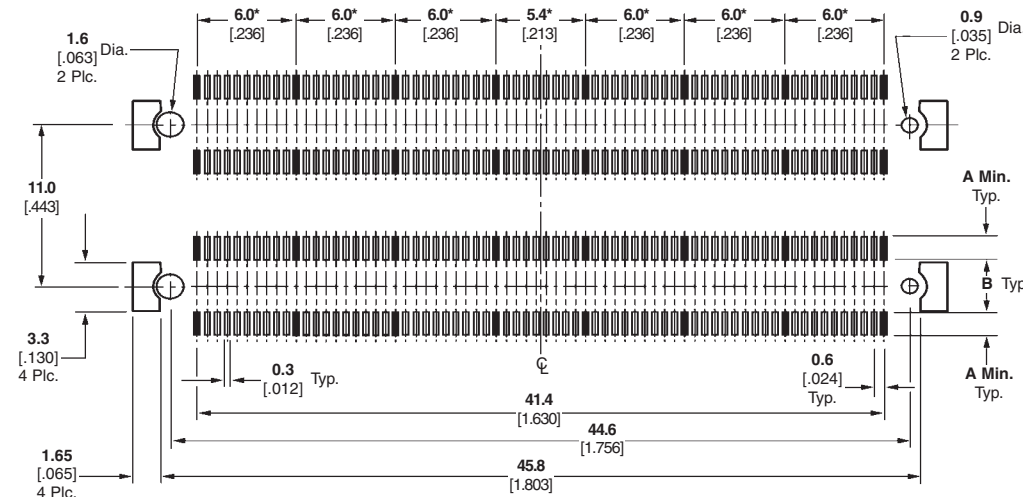
Recommended PC Board Layouts and Grounding Circuit Positions (Continued)



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

0.6mm Free Height (FH) and GIGA Connectors

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