



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) ranging from 10 to 440. The table contains a grid of colored cells indicating compatibility for various connector configurations.



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 size compatibility for positions 54 through 440.



Global Contacts

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

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

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

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

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

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

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

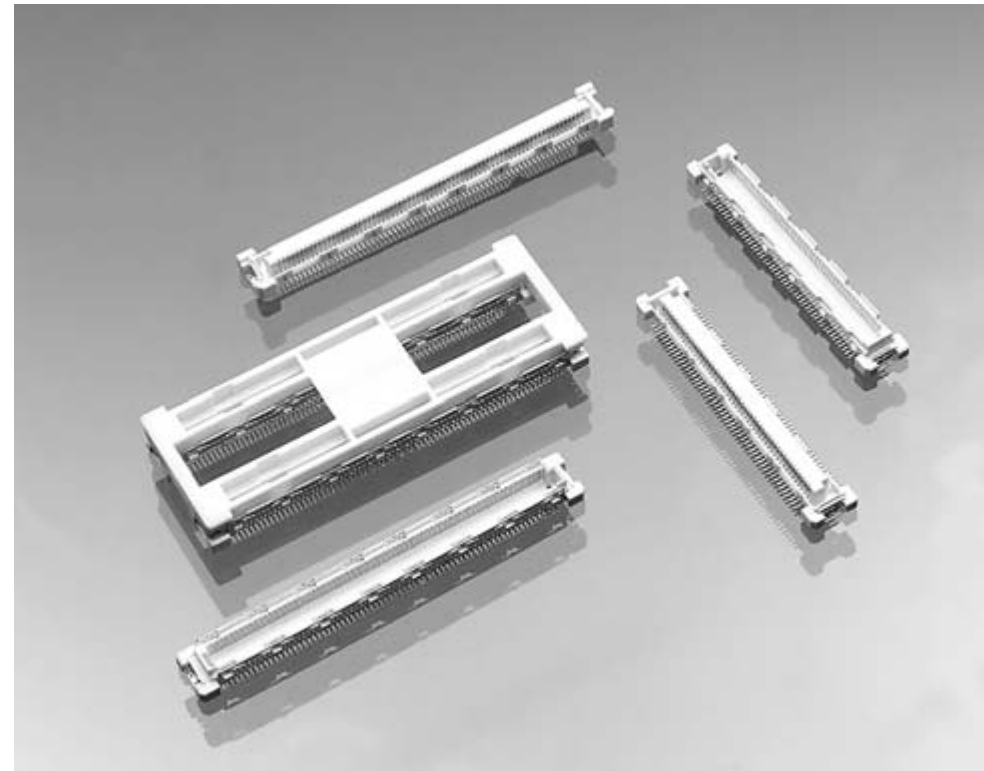
Ukraine - Kiev  
Phone: +380-044-206-2265  
Fax: +380-044-206-2264

**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

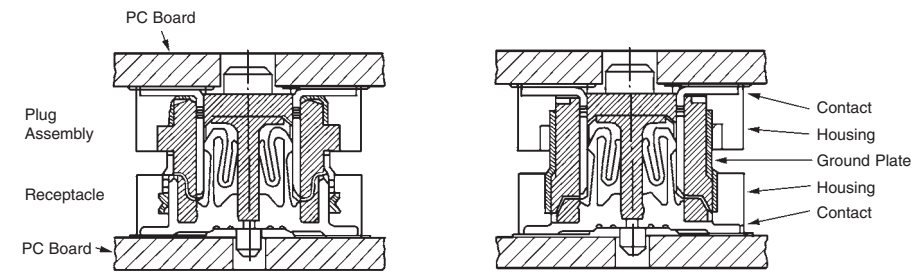
**Operating Temperature** — -40°C to +85°C

**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 &amp; 35</p>	N/A	<p>Page 31</p> <p>Receptacle 12.0 [.472] Plug</p> <p>Pages 32, 33 &amp; 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 &amp; 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 &amp; 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 &amp; 35</p>	N/A	<p>Page 31</p> <p>Receptacle 16.0 [.630] Plug</p> <p>Pages 32, 33 &amp; 35</p>

0.6mm Free Height (FH) and GIGA Connectors

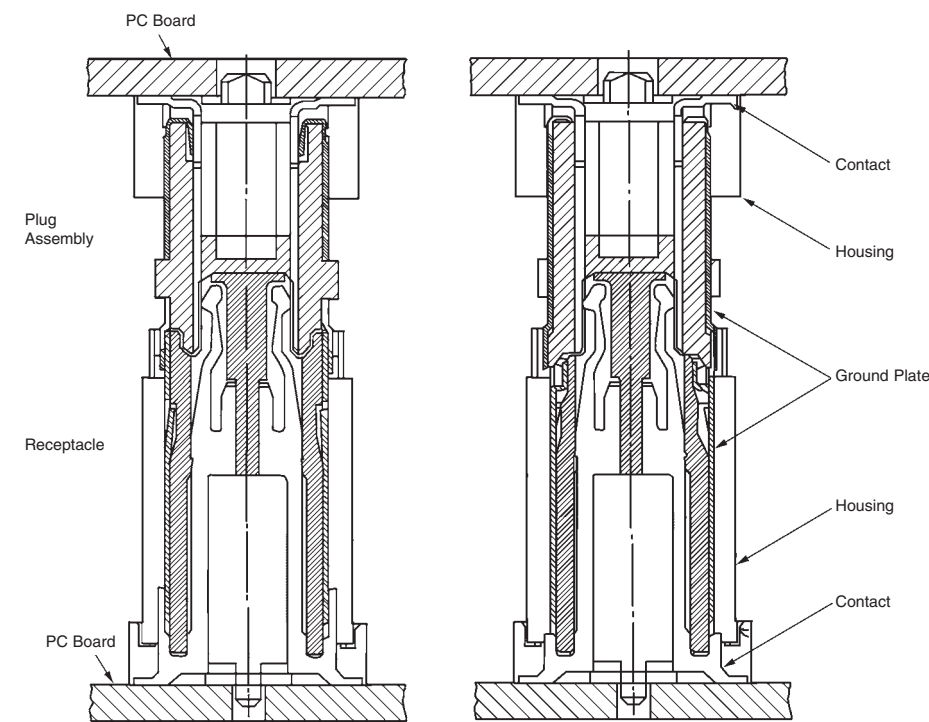
**0.6mm Free Height (FH) and GIGA Connectors** (Continued)



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

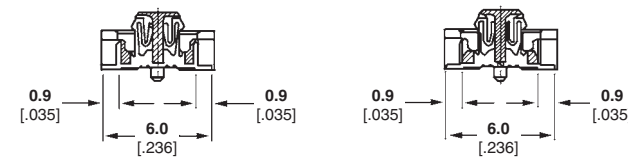
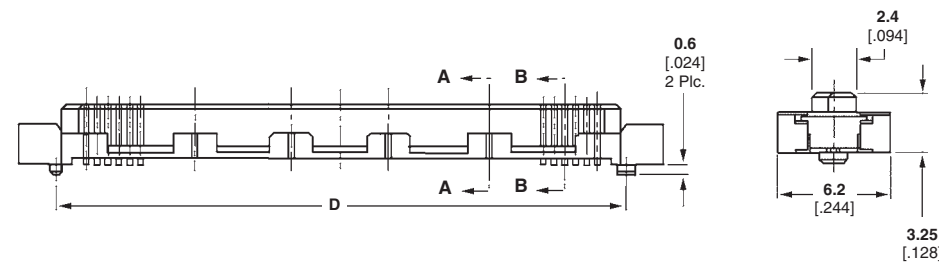
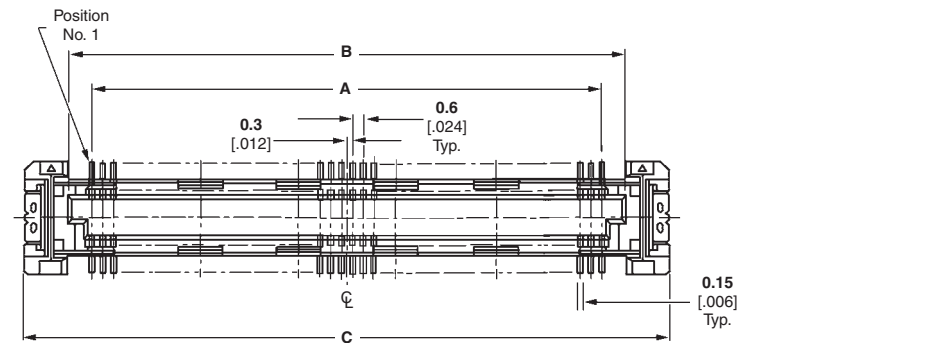
**Stacking Height Combinations** — page 28

**Mating Plugs** — pages 32, 33 & 35

**PC Board Layout** — pages 36 & 37

**Technical Documents** (page 113)

**Product Specification**  
108-5468



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.

**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

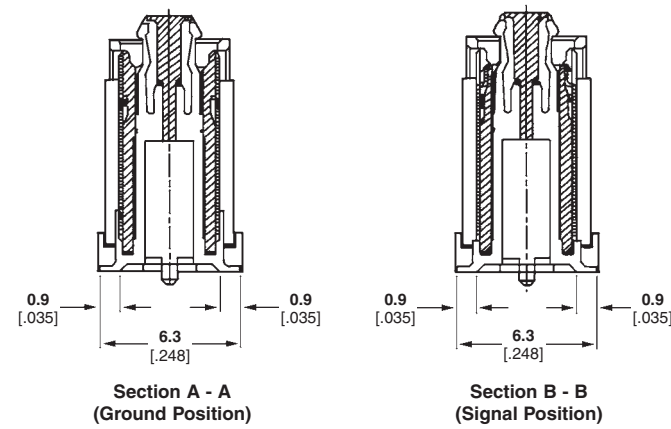
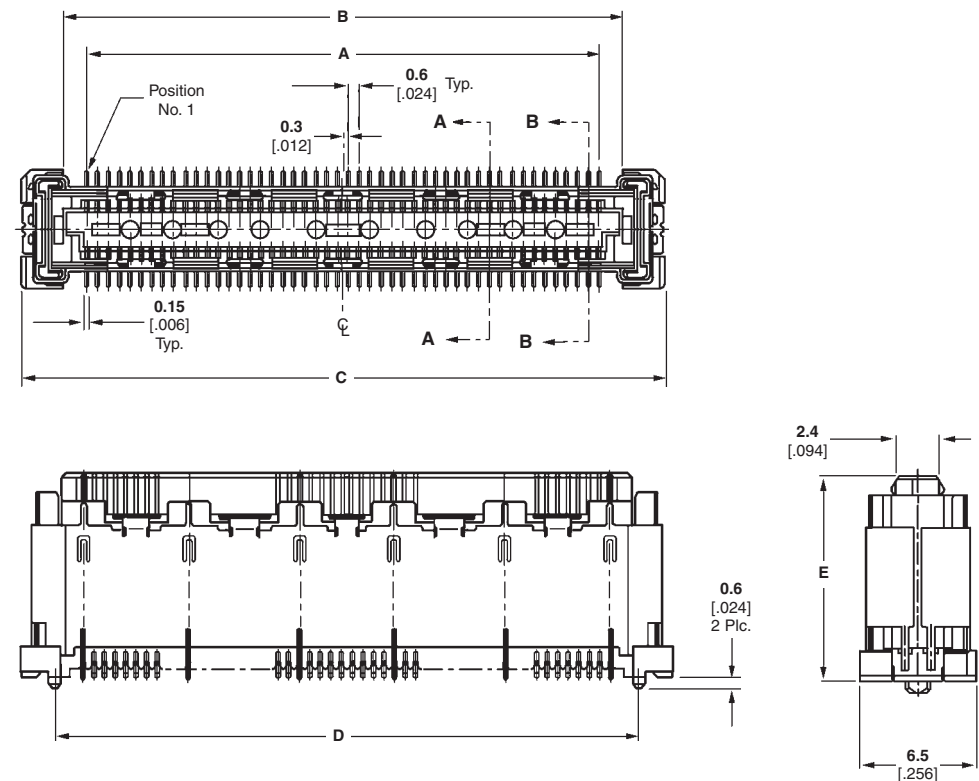
**Stacking Height Combinations** — page 28

**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

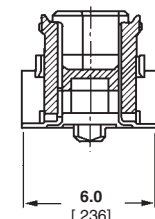
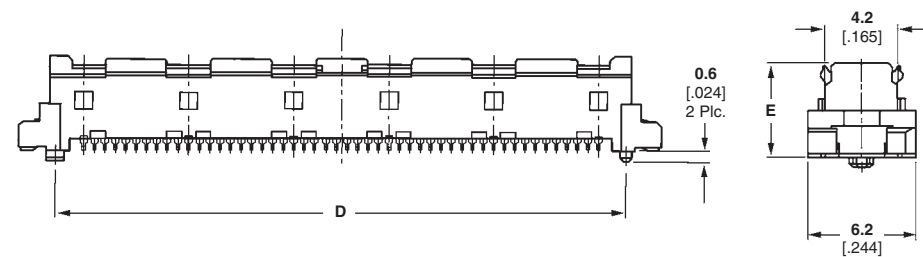
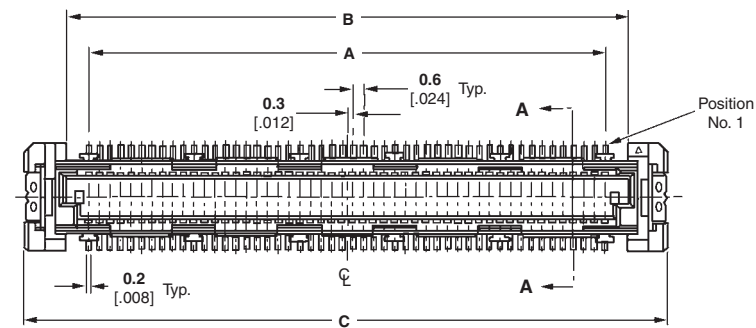
**Technical Documents** (page 113)

**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

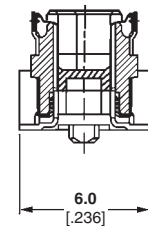
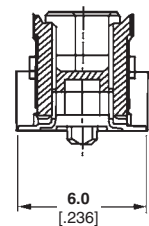
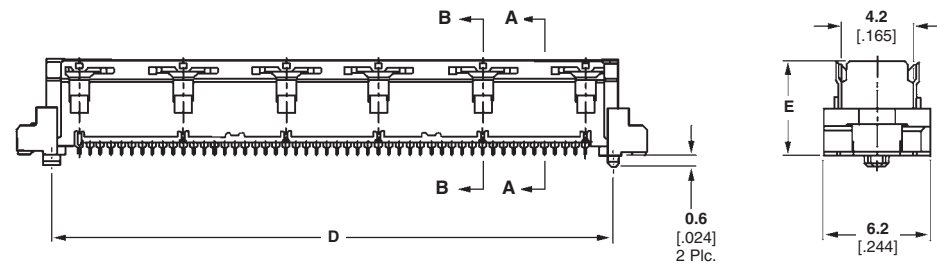
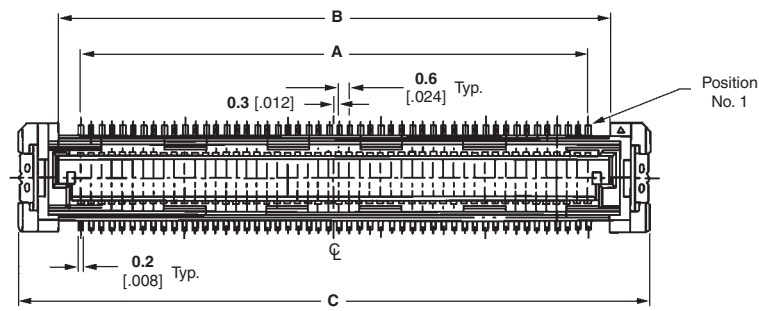
**Ground Plates** — Phosphor bronze, plated 0.00300-0.00500 [0.00120-.000200] tin over 0.00050 [0.00020] copper

**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 [0.024] 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

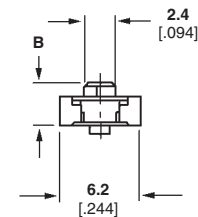
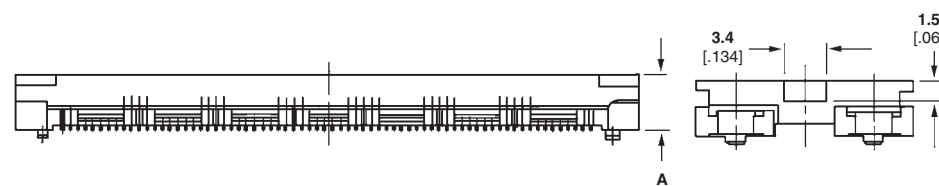
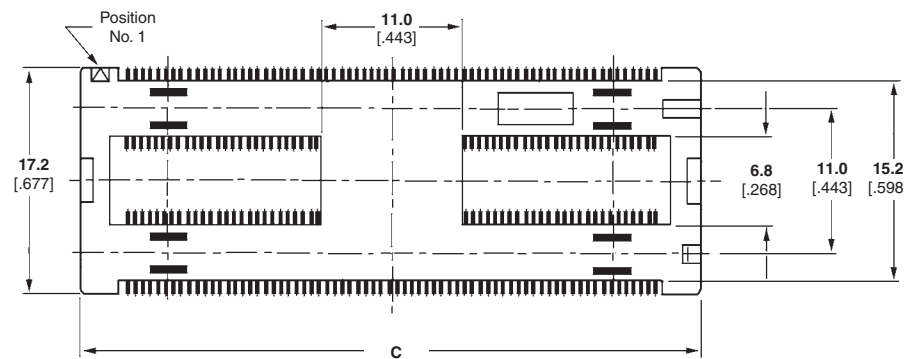
**Stacking Height Combinations** — page 28

**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

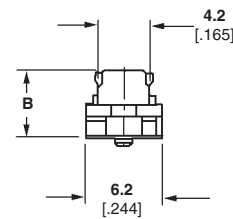
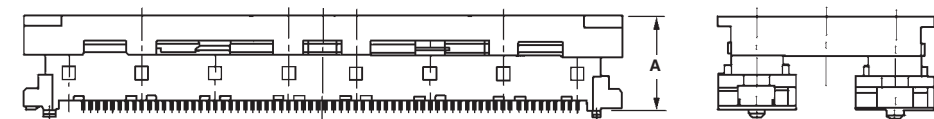
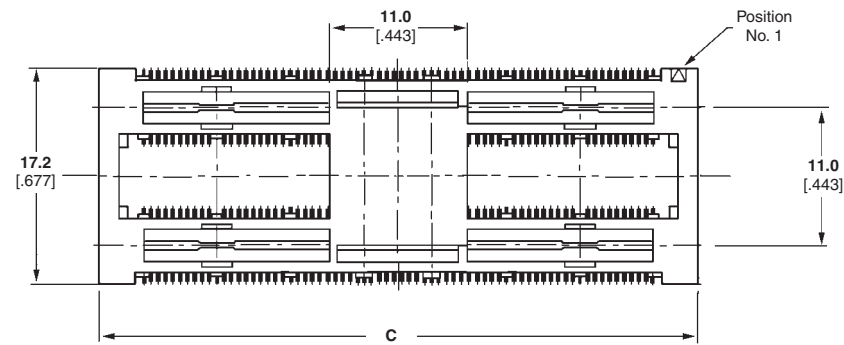
**Related Product Data**

- 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

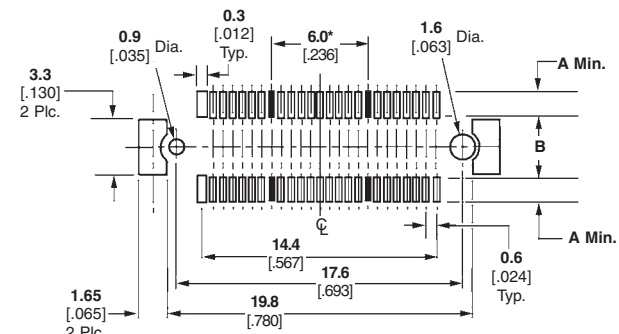
Dimensions			Ground Plate	Packaging	Positions	Height	Part Number
A	B	C					
5.45 .215	3.45 .136	48.70 1.917	Yes	Tape	280	4H	1-5353231-0
5.45 .215	3.45 .136	48.70 1.917	No	Tape	280	4H	1-5353284-0
5.45 .215	3.45 .136	48.70 1.917	Yes	Tray	280	4H	1-5353720-0
7.45 .293	5.45 .215	48.70 1.917	Yes	Tape	280	6H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

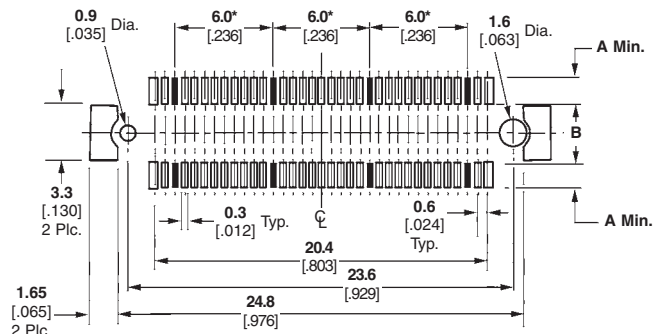
For 50-, 70-, 80- and 100-Position Receptacles

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

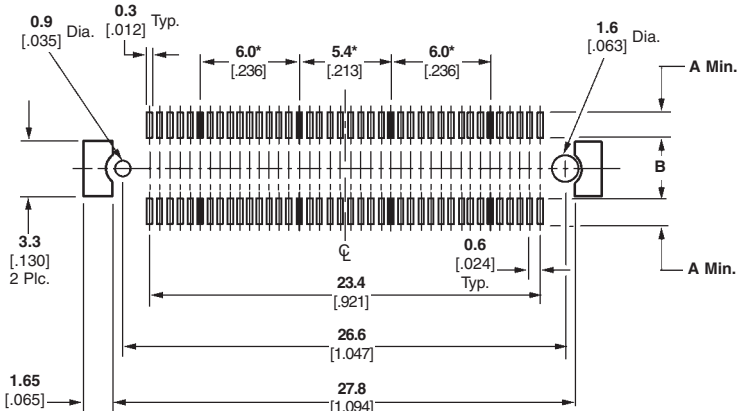
Recommended PC Board Layouts and Grounding Circuit Positions



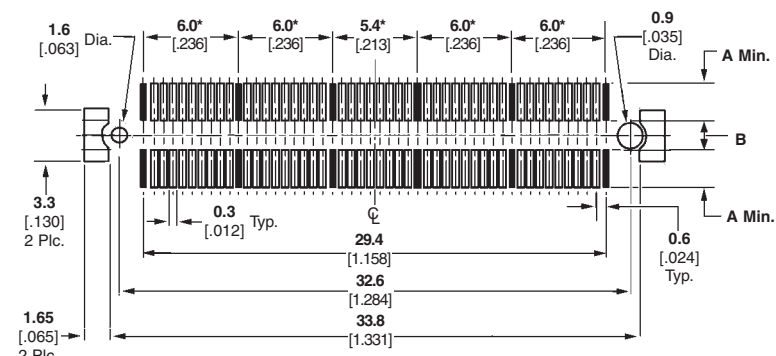
For 50-Position Receptacles  
\*Spacing between grounding circuits



For 70-Position Receptacles  
\*Spacing between grounding circuits



For 80-Position Receptacles  
\*Spacing between grounding circuits



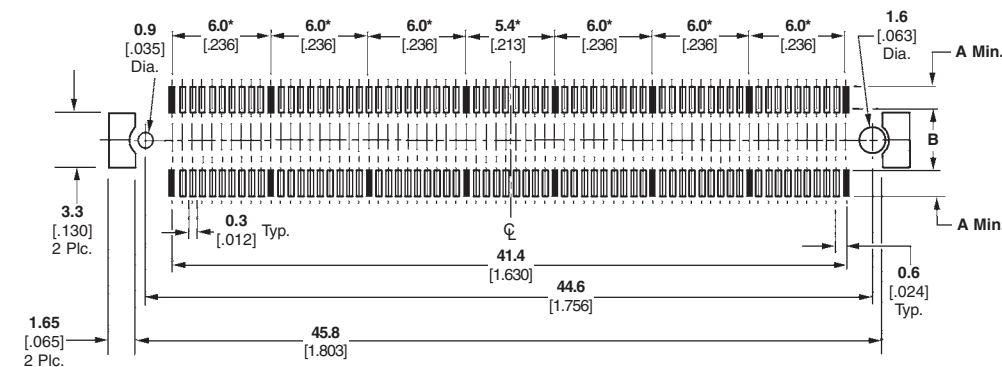
For 100-Position Standard Receptacles  
\*Spacing between grounding circuits

0.6mm Free Height (FH) and GIGA Connectors

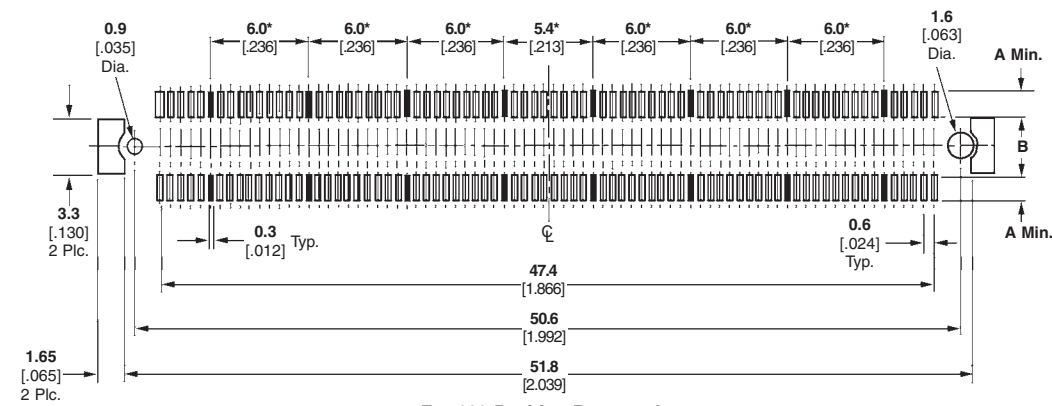
**Recommended PC Board Layouts and Grounding Circuit Positions** (Continued)

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

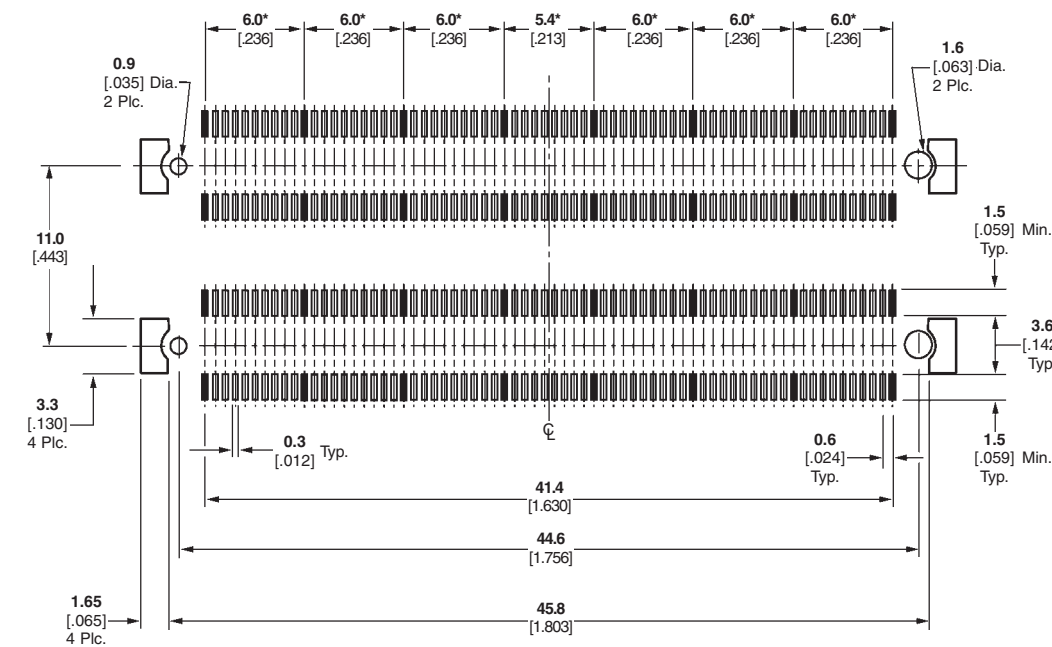
Stacking Height	Dimensions	
	A	B
4H	1.5 .059	3.6 .142
12H	1.75 .069	3.8 .150



**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

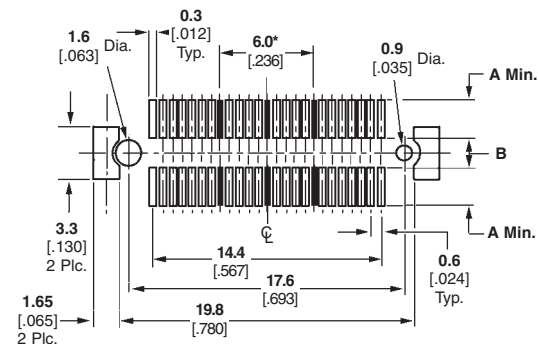
0.6mm Free Height (FH) and GIGA Connectors

0.6mm Free Height (FH) and GIGA Connectors

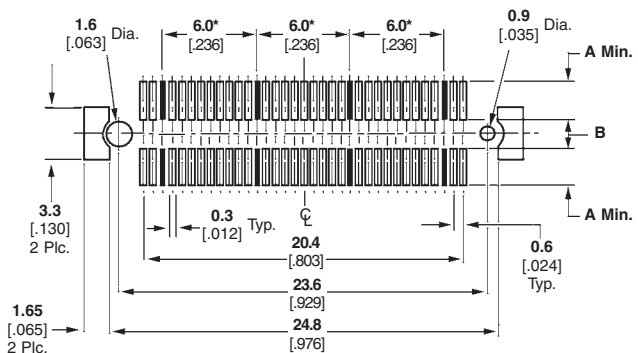
**Recommended PC Board Layouts and Grounding Circuit Positions (Continued)**

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

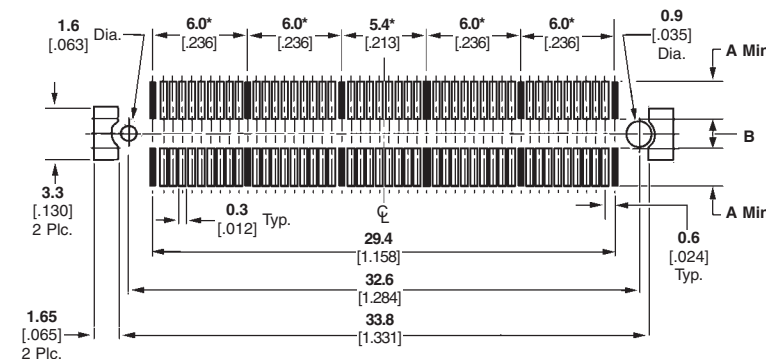
Stacking Height	Dimensions	
	A	B
4H	2.35 .093	1.9 .075
5H	1.8 .071	3.4 .134
6H	1.8 .071	3.4 .134
8H	1.8 .071	3.4 .134



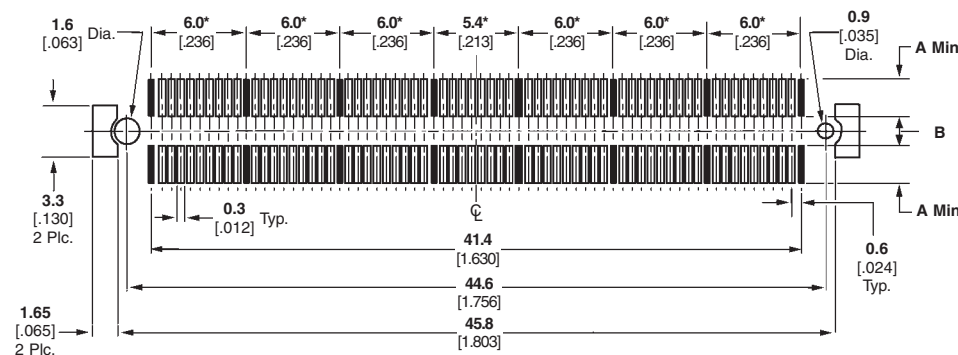
**For 50-Position Standard Plugs**  
**\*Spacing between grounding circuits**



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



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



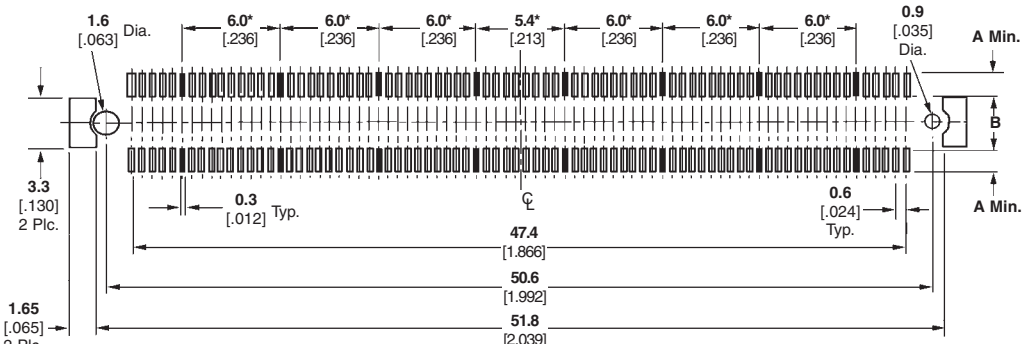
**For 140-Position Standard Plugs**  
**\*Spacing between grounding circuits**

0.6mm Free Height (FH) and GIGA Connectors

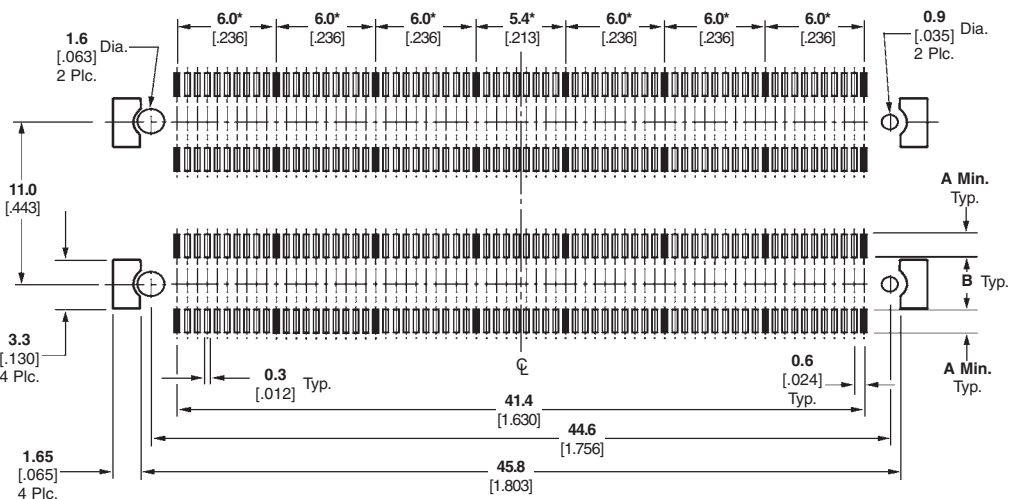
**For 160-Position Standard Plugs and 280-Position Standard Bridge Plugs**

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)**



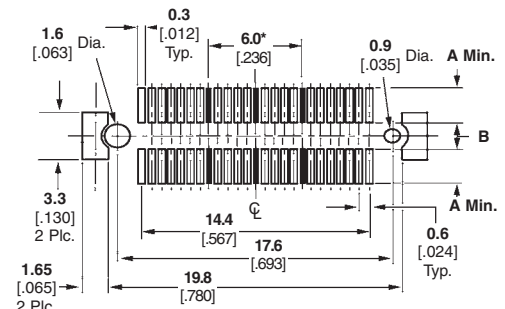
**For 160-Position Standard Plugs**  
\*Spacing between grounding circuits



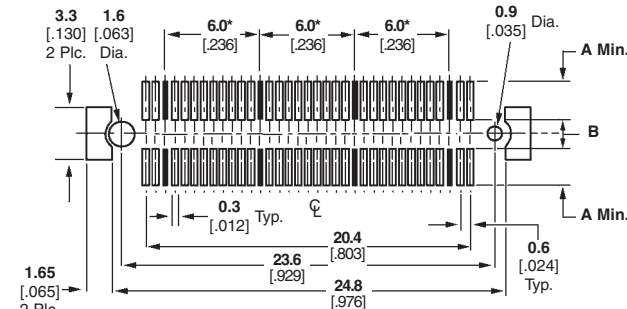
**For 280-Position Standard Bridge Plugs**  
\*Spacing between grounding circuits

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

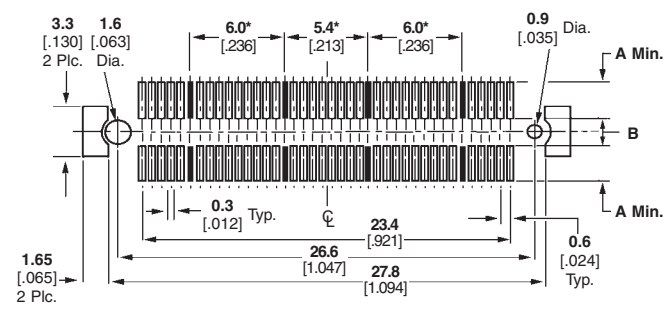
Stacking Height	Dimensions	
	A	B
4H	2.35 .093	1.9 .075
6H	1.8 .071	3.4 .134
7H	1.8 .071	3.4 .134



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



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



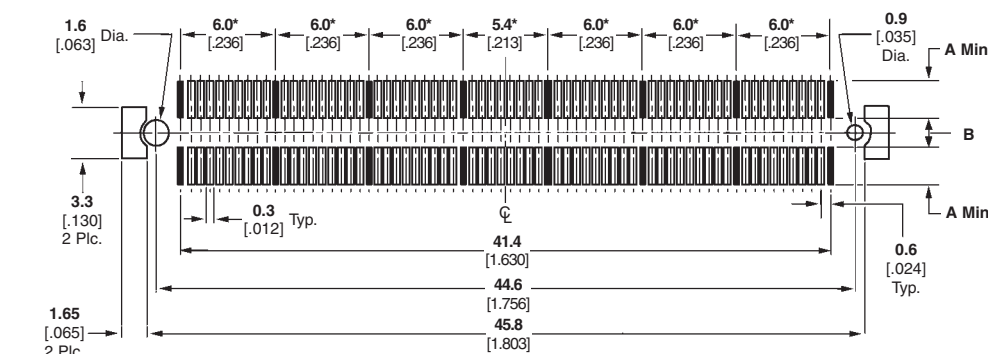
**For 80-Position GIGA Plugs**  
\*Spacing between grounding circuits

0.6mm Free Height (FH) and GIGA Connectors

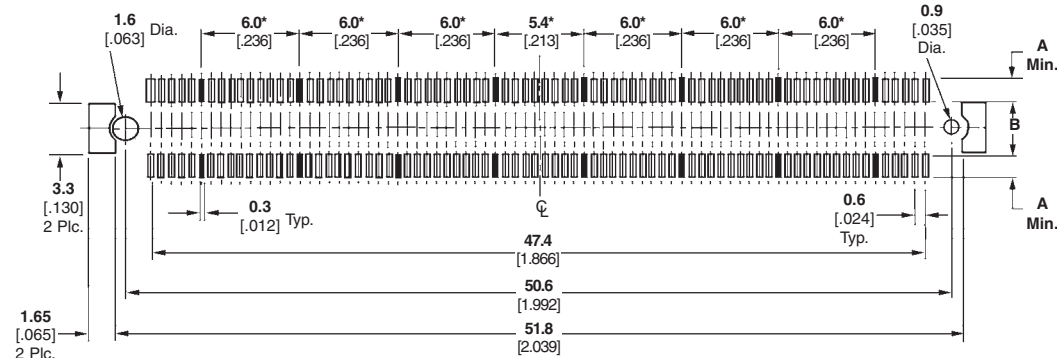
**For 140- and 160-position GIGA Plugs and 280-Position GIGA Bridge Plugs**

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

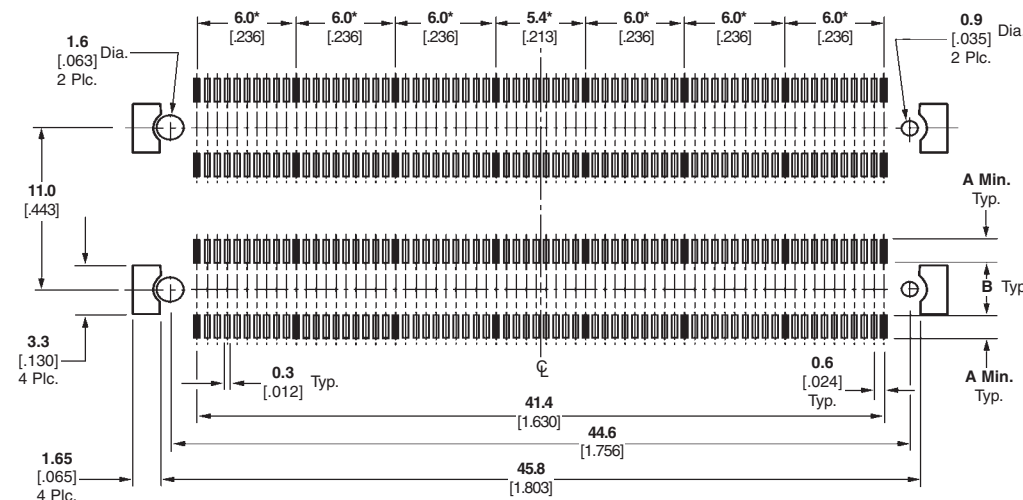
**Recommended PC Board Layouts and Grounding Circuit Positions (Continued)**



**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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