

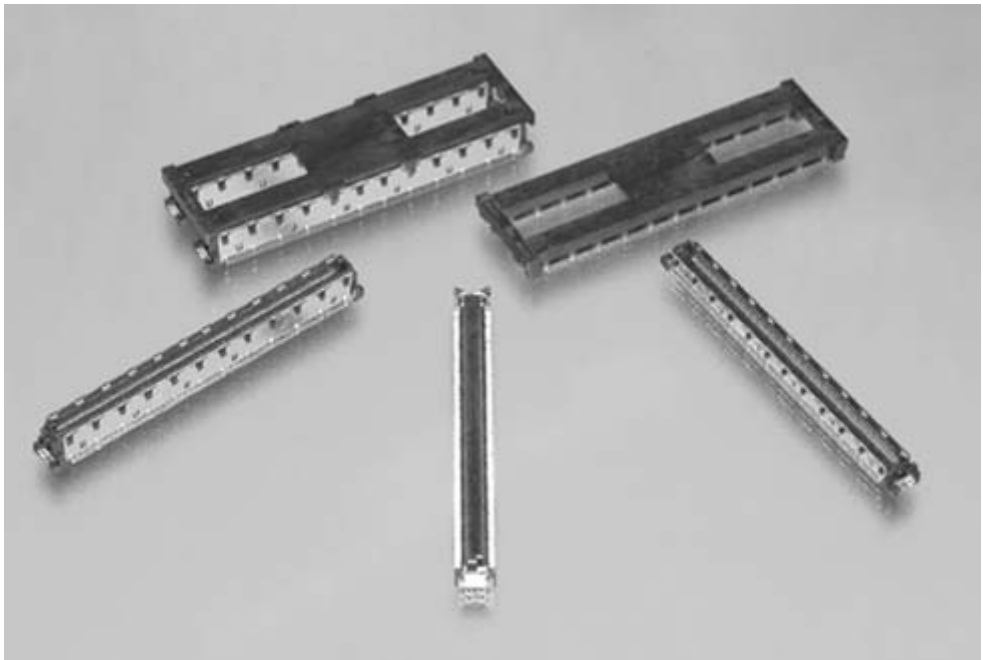
Product Facts

- Available position sizes:
 - For single connector: 120, 160, 200, 220, and 240 positions
 - For bridged connectors: 240, 320, and 440 positions
- Available stacking heights:
 - 5mm, 6mm, 7mm, 8mm, 9mm, 11mm, 12mm, 15mm, and 16mm (limited by position sizes)
- Giga ground shielding options on all parts
- RoHS Compliant part numbers available
- Polarized locating posts

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



0.5mm Free Height (FH) Connectors



0.5mm Free Height is a two-piece connector system designed for parallel board-to-board stacking applications. The contact system is identical to our popular 0.6mm FH product. The 0.5mm FH product has been chosen by the PICMG COM Express working group as the interface between embedded modules and carrier cards.

Applications

Parallel board-to-board for stacking applications that require high density. **The .5mm FH product is specified by the PICMG COM Express standard as the module to carrier card interface.** All stacking applications including Computer, Telecommunications, and Industrial industries.

Mechanical Properties

- Operating Temperature — -40°C to +85°C
- Durability — 30 cycles
- Current Rating — 0.5A
- Voltage Rating — 50 VAC
- Dielectric Withstanding Voltage — 200 VAC

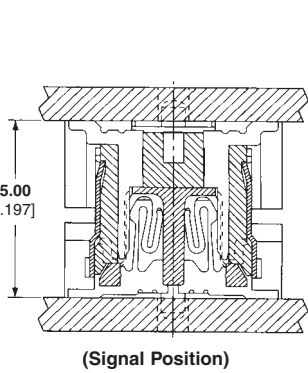
Technical Documents

- Product Specification
108-5560
- Test Reports
501-5226

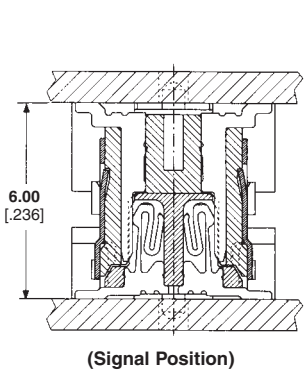
0.5mm Free Height (FH)
Connectors

Board Stacking Spacing by
Combined Receptacle and
Plug Assemblies

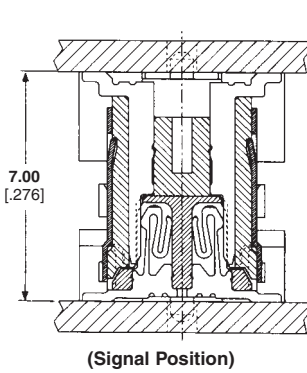
5mm Height



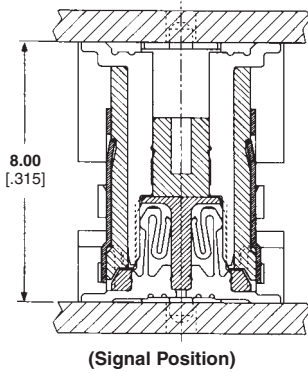
6mm Height



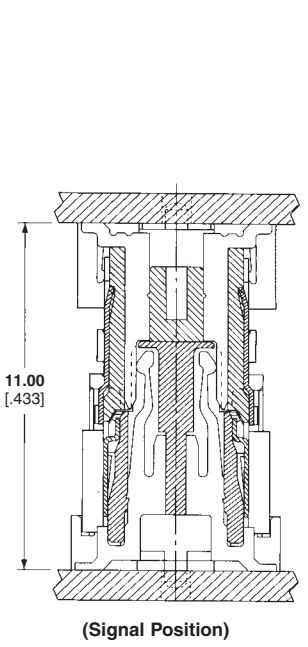
7mm Height



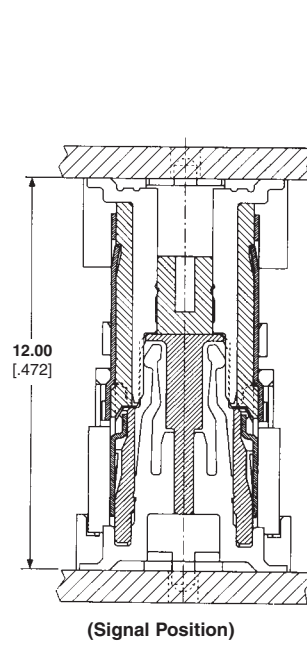
8mm Height



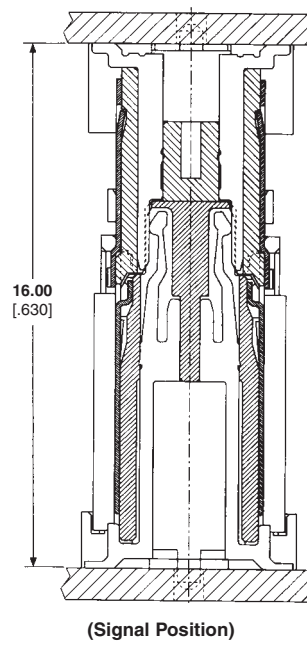
11mm Height



12mm Height



16mm Height



0.5mm Free Height (FH) Connectors (Continued)

Fine Pitch SMT Stacking Connectors
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Electronics

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



0.5mm Free Height (FH) Connectors (Continued)

0.5 FH Height Lists

Stack Height(mm) = Rcpt H + Plug H - 4
Giga Option = G-Plate & G-Con't
COM Express Part Numbers
Type: S = Single part; B = Bridge

RECEPTACLE

Remarks	Saleable Part No.	Packaging	SIF-200	G-Con	Type	H	Pos.	200	220	240	240	440	240	240	120	200	120	160	200	220	320	440
with Cap	2-6473527-9	Emboss	—	—	S	4	120															
with Cap	3-6565778-5	Semi H/T	—	—	S	4	200	5H							7H		8H					
with Cap	6-5353606-6	Hard Tray	—	X	S	4	220		5H										8H			
	3-6318490-6	Hard Tray	—	X	S	4	220		5H										8H			
with Cap	3-6473884-7	Hard Tray	—	—	S	4	240						6H	6H								
with Cap	3-5353606-7	Hard Tray	—	X	S	4	240						6H	6H								
with Cap	3-1827231-6	Hard Tray	—	X	B	4	440					5H										8H
with Cap	5-6123675-9	Emboss	—	X	B	4	240			5H	5H											
	6-5353699-5	Hard Tray	—	X	S	8	200	9H							11H		12H					
with Cap	6-5353700-5	Hard Tray	X	X	S	8	200								11H		12H					
with Cap	6376618-1	Hard Tray	—	X	S	12	120							15H		16H						
with Cap	6-5353703-2	Tray	X	X	S	12	160									16H						
	6-5353649-2	Hard Tray	—	X	B	12	320														16H	

PLUG

Remarks	Saleable Part No.	Packaging	SIF-200	G-Plate	Type	H
with Cap	3-6612148-5	Semi H/T	—	X	S	5
	3-1827253-6	Hard Tray	—	X	S	5
	5-6123672-9	Emboss	—	X	B	5
	9-6123672-9	Emboss	—	X	B	5
with Cap (BLK)	9-6123672-9	Hard Tray	—	X	B	5
	3-1827233-6	Hard Tray	—	X	B	6
	3-6473868-7	Hard Tray	—	X	B	6
	3-5353614-7	Hard Tray	—	X	B	6
	2-6473530-9	Emboss	—	X	B	7
	6-6123766-5	Hard Tray	—	X	B	7
	6376622-1	Hard Tray	—	X	B	8
	6-5353706-2	Hard Tray	X	X	B	8
	3-6565779-5	Semi H/T	—	X	B	8
	3-6318491-6	Hard Tray	—	X	B	8
	6-5353652-2	Hard Tray	—	X	B	8
	3-5353652-6	Hard Tray	—	X	B	8

0.5mm Free Height (FH)
Connectors

Note: Part Numbers are RoHS compliant.

Receptacle Assembly

Acceptable Board Stacking
Height = 11mm/12mm

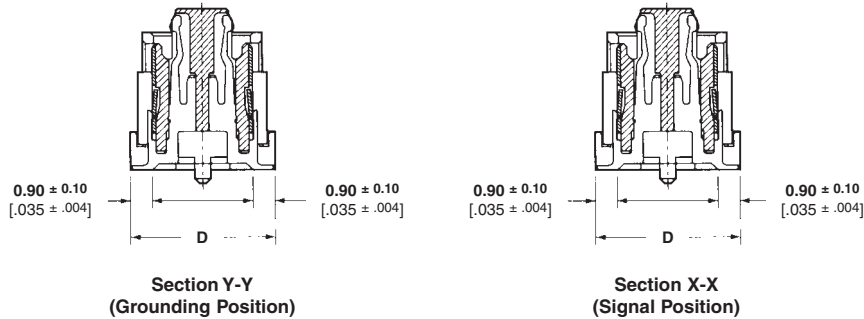
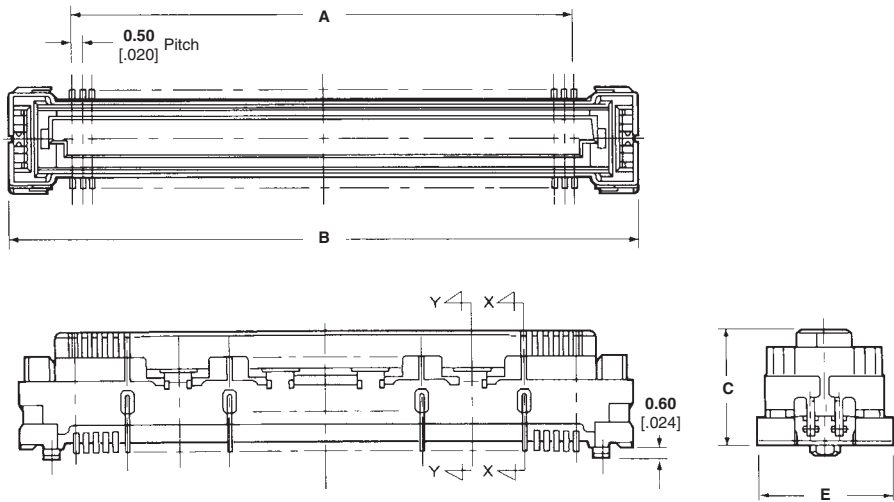
Material and Finish

Housing — UL94V-0, heat resistant resin, natural color

Contact — Copper alloy, 0.2µm min. gold plated on contact area, 0.1µm tin-lead plated or tin plated on soldering area, 1.3µm min. nickel underplated on entire contact, 0.1µm thick tin plated on grounding contact.

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

0.5mm Free Height (FH) Connectors (Continued)



.5 mm FH Receptacle Assemblies

Positions	Height	Dimensions					Ground Contact	SIF-200	With Pickup Cap	Packaging Type	Part Number
		A	B	C	D	E					
120	4	29.50 1.161	36.80 1.449	3.25 .128	6.20 .244	6.00 .236	—	—	Yes	Tape	2-6473527-9
	12	29.50 1.161	36.80 1.449	11.25 .443	6.30 .248	6.50 .256	Yes	—	Yes	Hard Tray	6376618-1
160	12	39.50 1.555	46.80 1.843	11.25 .443	6.30 .248	6.50 .256	Yes	—	Yes	Tray	6-5353703-2
200	4	49.50 1.949	56.80 2.236	3.25 .128	6.20 .244	6.00 .236	—	—	Yes	Semi H/T	3-6565778-5
	8	49.50 1.949	56.80 2.236	7.25 .285	6.30 .248	6.50 .256	Yes	—	—	Hard Tray	6-5353699-5
220	4	54.50 2.146	61.80 2.433	3.25 .128	6.20 .244	6.00 .236	Yes	—	—	Hard Tray	3-6318490-6
	4	54.50 2.146	61.80 2.433	3.25 .128	6.20 .244	6.00 .236	Yes	—	Yes	Hard Tray	6-5353606-6
	8	54.50 2.146	61.80 2.433	7.25 .285	6.30 .248	6.50 .256	Yes	Yes	Yes	Hard Tray	6-5353700-5
240	4	59.50 2.343	66.80 2.630	3.25 .128	6.20 .244	6.00 .236	—	—	Yes	Hard Tray	3-6473884-7
	4	59.50 2.343	66.80 2.630	3.25 .128	6.20 .244	6.00 .236	Yes	—	Yes	Hard Tray	3-5353606-7

Note: Part Numbers are RoHS compliant.

Plug Assembly

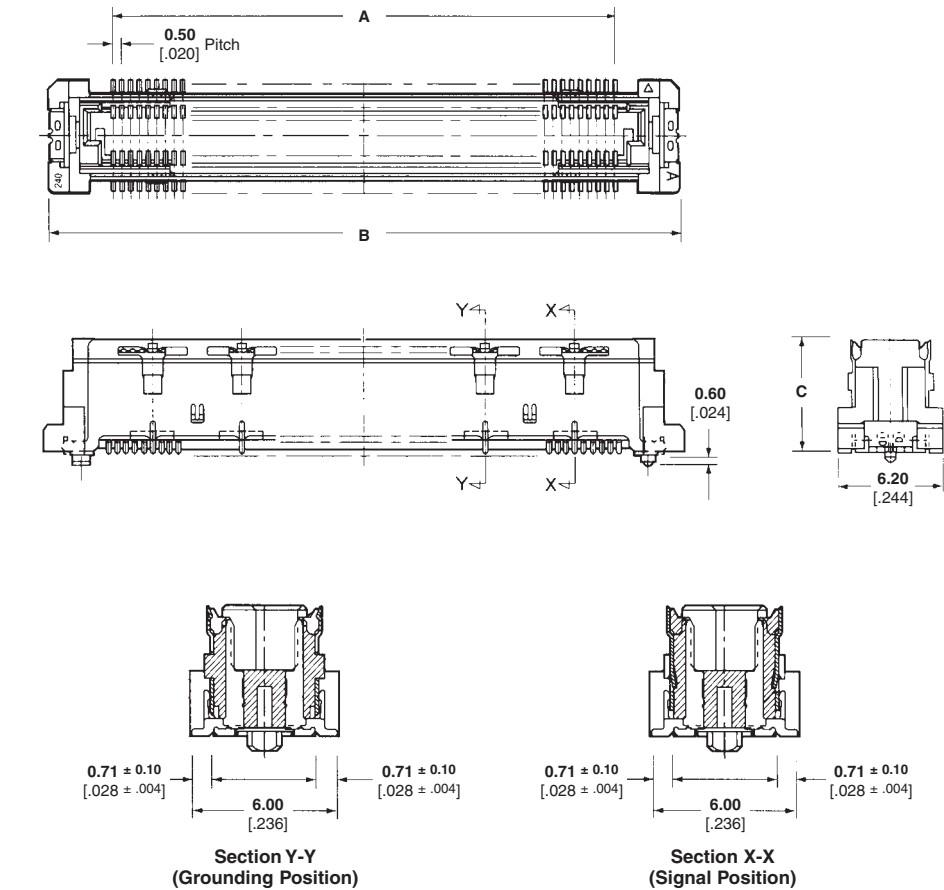
Material and Finish

Housing — UL94V-0, heat resistant resin, natural color

Contact — Copper alloy, 0.2µm min. gold plated on contact area, 0.1µm tin-lead plated or tin plated on soldering area, 1.3µm min. nickel underplated on entire contact, 0.1µm thick tin plated on grounding contact.

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

0.5mm Free Height (FH) Connectors (Continued)



.5 mm FH Plug Assemblies

Positions	Height	Dimensions			Giga Ground Shield	SIF-200	With Pickup Cap	Packaging Type	Part Number
		A	B	C					
120	7	29.50 1.161	36.80 1.449	6.45 .254	—	—	Yes	Tape	2-6473530-9
	8	29.50 1.161	36.80 1.449	7.45 .293	—	—		Hard Tray	6376622-1
160	8	39.50 1.555	46.80 1.843	7.45 .293	Yes	Yes	Yes	Hard Tray	6-5353706-2
200	5	49.50 1.949	56.80 2.236	4.45 .1175	Yes	—	Yes	Semi H/T	3-6612148-5
	7	49.50 1.949	56.80 2.236	6.45 .254	Yes	—		Hard Tray	6-6123766-5
	8	49.50 1.949	56.80 2.236	7.45 .293	Yes	—	Yes	Semi H/T	3-6565779-5
220	5	54.50 2.146	61.80 2.433	4.45 .1175	Yes	—		Hard Tray	3-1827253-6
	8	54.50 2.146	61.80 2.433	7.45 .293	Yes	—		Hard Tray	3-6318491-6
240	6	59.50 2.343	66.80 2.630	5.45 .215	Yes	—	Yes	Hard Tray	3-5353614-7
	6	59.50 2.343	66.80 2.630	5.45 .215	—	—	Yes	Hard Tray	3-6473868-7

Note: Part Numbers are RoHS compliant.

