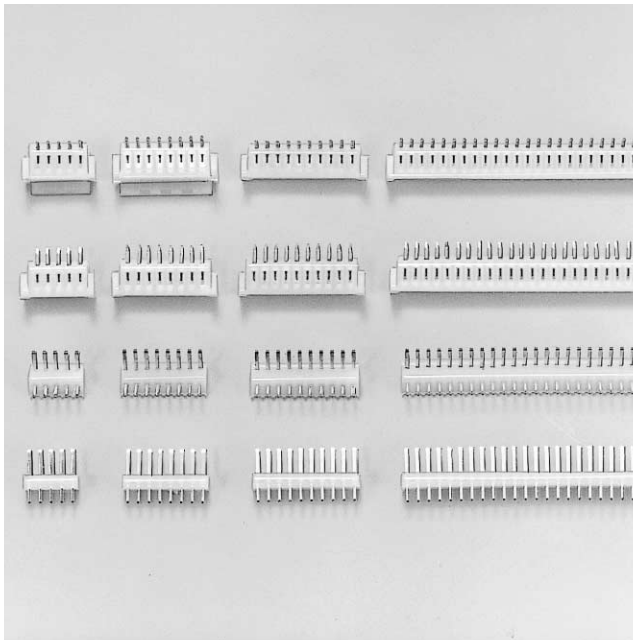
JST

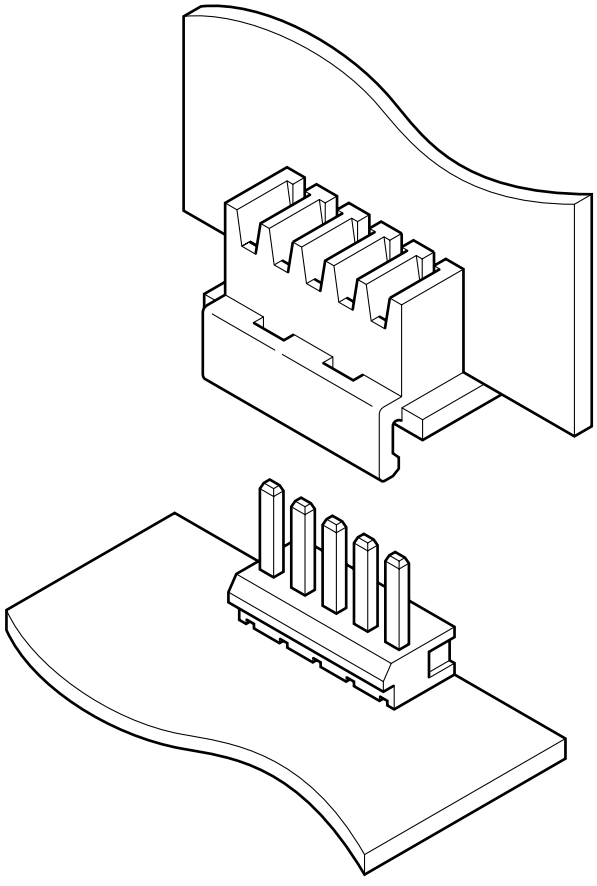
2.5mm
(.098") pitch

HVQ CONNECTOR

Board-to-board connectors



This 2.5mm (.098") pitch connector is used to interconnect printed circuit boards in parallel, vertically or horizontally.



Features

• Superior folded beam construction

(1) This sturdy construction withstands repeated stress, resists permanent deformation, and offers a very long service life.

(2) This contact design has a large tolerance for variations in mating post thickness and resists deformation when pried.

• Whisker prevention

The header post is copper-undercoated and tin/lead-plated to prevent whiskers from being generated and to provide good solderability.

• Wide, sturdy post

The post has a large cross-sectional area to resist prying during insertion into printed circuit boards and mating with connector housings.

• Molded-in header

The posts are molded into the insulator to provide stability when mounted on printed circuit boards. This also prevents flux from entering the connector during soldering.

Specifications

- Current rating: 3A AC, DC
- Voltage rating: 250V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable PC board thickness: 1.6mm(.063")

* Contact JST if Lead-Free product is required.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

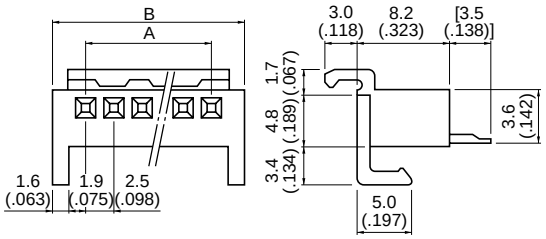
Standards

Recognized E60389

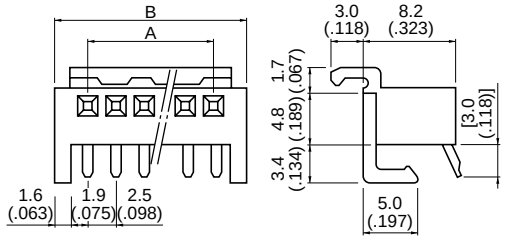
Certified LR20812

Receptacle

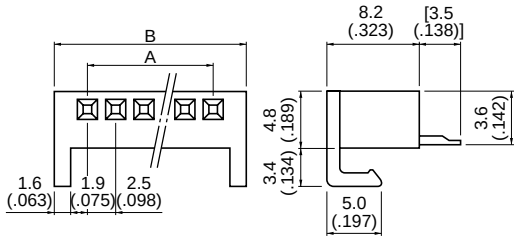
Top entry type with lock



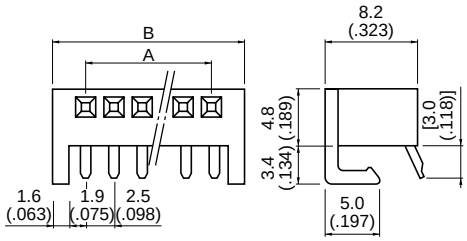
Side entry type with lock



Top entry type without lock



Side entry type without lock

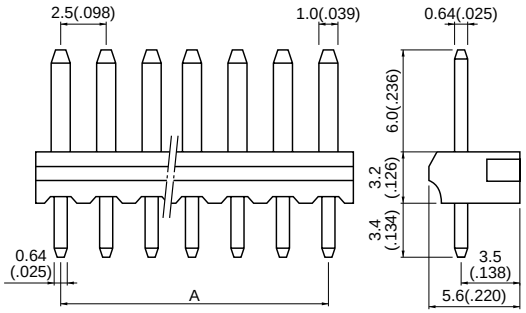


Circuits	Model No.				Dimensions mm(in.)		Q'ty / box	
	Top entry type		Side entry type					
	With lock	Without lock	With lock	Without lock	A	B	With lock	Without lock
3	–	**F 3P-HVQ**	–	**F 3P-SHVQ**	5.0(.197)	12.0(.472)	–	500
4	–	**F 4P-HVQ**	–	**F 4P-SHVQ**	7.5(.295)	14.5(.571)	–	500
5	**5P-HVQ**	**F 5P-HVQ**	**5P-SHVQ**	**F 5P-SHVQ**	10.0(.394)	17.0(.669)	250	250
6	**6P-HVQ**	**F 6P-HVQ**	**6P-SHVQ**	**F 6P-SHVQ**	12.5(.492)	19.5(.768)	250	250
7	**7P-HVQ**	**F 7P-HVQ**	**7P-SHVQ**	**F 7P-SHVQ**	15.0(.591)	22.0(.866)	200	250
8	**8P-HVQ**	**F 8P-HVQ**	**8P-SHVQ**	**F 8P-SHVQ**	17.5(.689)	24.5(.965)	200	200
9	**9P-HVQ**	**F 9P-HVQ**	**9P-SHVQ**	**F 9P-SHVQ**	20.0(.787)	27.0(1.063)	200	200
10	**10P-HVQ**	**F10P-HVQ**	**10P-SHVQ**	**F10P-SHVQ**	22.5(.886)	29.5(1.161)	100	200
11	**11P-HVQ**	**F11P-HVQ**	**11P-SHVQ**	**F11P-SHVQ**	25.0(.984)	32.0(1.260)	100	150
12	**12P-HVQ**	**F12P-HVQ**	**12P-SHVQ**	**F12P-SHVQ**	27.5(1.083)	34.5(1.358)	100	150
13	–	**F13P-HVQ**	–	**F13P-SHVQ**	30.0(1.181)	37.0(1.457)	–	100
14	–	**F14P-HVQ**	–	**F14P-SHVQ**	32.5(1.280)	39.5(1.555)	–	100
15	–	**F15P-HVQ**	–	**F15P-SHVQ**	35.0(1.378)	42.0(1.654)	–	100
16	–	**F16P-HVQ**	–	**F16P-SHVQ**	37.5(1.476)	44.5(1.752)	–	100
17	–	**F17P-HVQ**	–	**F17P-SHVQ**	40.0(1.575)	47.0(1.850)	–	100
18	–	**F18P-HVQ**	–	**F18P-SHVQ**	42.5(1.673)	49.5(1.949)	–	100
19	–	**F19P-HVQ**	–	**F19P-SHVQ**	45.0(1.772)	52.0(2.047)	–	100
20	–	**F20P-HVQ**	–	**F20P-SHVQ**	47.5(1.870)	54.5(2.146)	–	100
21	–	**F21P-HVQ**	–	**F21P-SHVQ**	50.0(1.969)	57.0(2.244)	–	100
22	–	**F22P-HVQ**	–	**F22P-SHVQ**	52.5(2.067)	59.5(2.343)	–	100
23	–	**F23P-HVQ**	–	**F23P-SHVQ**	55.0(2.165)	62.0(2.441)	–	100
24	–	**F24P-HVQ**	–	**F24P-SHVQ**	57.5(2.264)	64.5(2.539)	–	100
25	–	**F25P-HVQ**	–	**F25P-SHVQ**	60.0(2.362)	67.0(2.638)	–	100

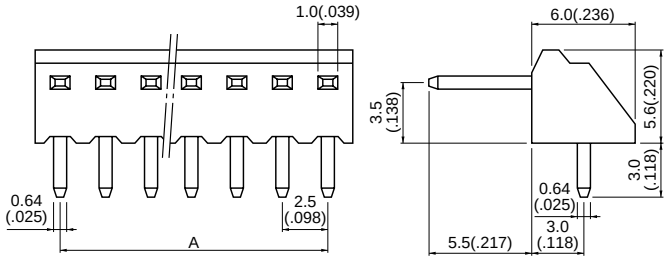
Material and Finish
Contact: Brass, tin-plated Housing: Nylon 66, UL94V-2, natural

Shrouded header

Top entry type



Side entry type

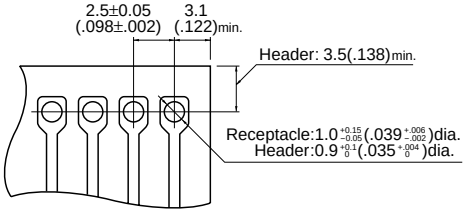


Cir-cuits	Model No.		Dimensions A mm(in.)	Q'ty / box	
	Top entry type	Side entry type		Top entry type	Side entry type
3	**B 3P-SHF-1AA**	**BS 3P-SHF-1AA**	5.0(.197)	1,000	1,000
4	**B 4P-SHF-1AA**	**BS 4P-SHF-1AA**	7.5(.295)	1,000	1,000
5	**B 5P-SHF-1AA**	**BS 5P-SHF-1AA**	10.0(.394)	1,000	1,000
6	**B 6P-SHF-1AA**	**BS 6P-SHF-1AA**	12.5(.492)	1,000	1,000
7	**B 7P-SHF-1AA**	**BS 7P-SHF-1AA**	15.0(.591)	500	500
8	**B 8P-SHF-1AA**	**BS 8P-SHF-1AA**	17.5(.689)	500	500
9	**B 9P-SHF-1AA**	**BS 9P-SHF-1AA**	20.0(.787)	500	500
10	**B10P-SHF-1AA**	**BS10P-SHF-1AA**	22.5(.886)	500	500
11	**B11P-SHF-1AA**	**BS11P-SHF-1AA**	25.0(.984)	500	500
12	**B12P-SHF-1AA**	**BS12P-SHF-1AA**	27.5(1.083)	250	200
13	**B13P-SHF-1AA**	**BS13P-SHF-1AA**	30.0(1.181)	250	200
14	**B14P-SHF-1AA**	**BS14P-SHF-1AA**	32.5(1.280)	250	200
15	**B15P-SHF-1AA**	**BS15P-SHF-1AA**	35.0(1.378)	250	200
16	**B16P-SHF-1AA**	**BS16P-SHF-1AA**	37.5(1.476)	250	200
17	**B17P-SHF-1AA**	**BS17P-SHF-1AA**	40.0(1.575)	250	200
18	**B18P-SHF-1AA**	**BS18P-SHF-1AA**	42.5(1.673)	250	200
19	**B19P-SHF-1AA**	**BS19P-SHF-1AA**	45.0(1.772)	250	200
20	**B20P-SHF-1AA**	**BS20P-SHF-1AA**	47.5(1.870)	250	200
21	**B21P-SHF-1AA**	**BS21P-SHF-1AA**	50.0(1.969)	250	200
22	**B22P-SHF-1AA**	**BS22P-SHF-1AA**	52.5(2.067)	250	200
23	**B23P-SHF-1AA**	**BS23P-SHF-1AA**	55.0(2.165)	250	200
24	**B24P-SHF-1AA**	**BS24P-SHF-1AA**	57.5(2.264)	250	200
25	**B25P-SHF-1AA**	**BS25P-SHF-1AA**	60.0(2.362)	250	200

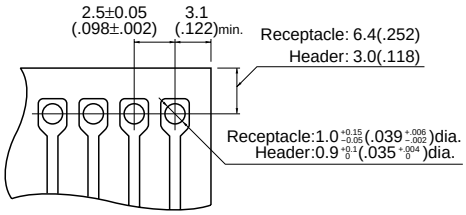
Material and Finish
Post: Brass copper-undercoated, tin/lead-plated Base: Nylon 66, UL94V-0, natural

PC board layout (viewed from soldering side)

Top entry type



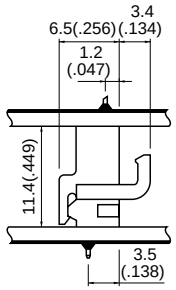
Side entry type



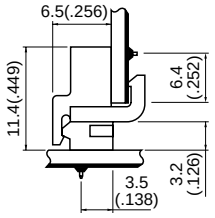
Note:
1. Tolerances are non-cumulative: ±0.05mm(±.002") for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Assembly layout

Top entry type receptacle and top entry type shrouded header



Side entry type receptacle and top entry type shrouded header



Side entry type receptacle and side entry type shrouded header