JST

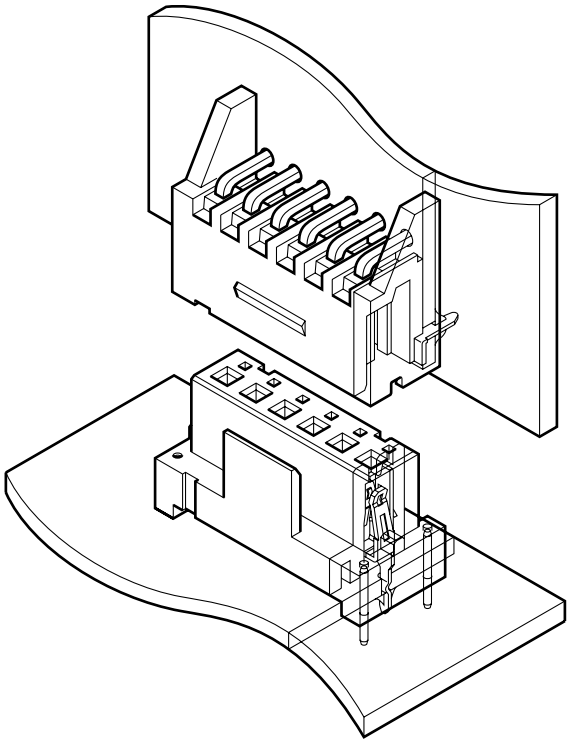
2.5mm
(.098") pitch

JL CONNECTOR

Radial Tape

Board-to-board connectors

The JL connector is designed for board-to-board connection in electronic equipment requiring high-density mounting and unitization. This connector is highly resistant to equipment vibration and shock.



Features

• High contact pressure

High spring pressure contacts mate with each male pin on two sides. This assures stable connector performance during equipment vibration and shock.

• Housing lock assures good connection even after severe shock & vibration

The connector halves can be easily mated, yet have a high retention force because of the housing lock mechanism. Even severe shocks and long periods of vibration will not interrupt these circuits. Both secure lock and friction lock connectors are available.

• Reinforcing pins increase PCB mounting durability

Separate, off-set, non-signal, solder tail pins absorb shock, vibration, and mating stresses. These pins prevent solder cracks and connector lifting caused by mating or shock and vibration, and improve the mechanical strength of the daughter card restraining system.

• Polarized, fully shrouded header aligns the connector halves before their pins make contact

Lead-in chamfers, grooves, and matching ribs align the housings well before the contacts mate, thus preventing damage caused by misalignment or mismating.

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: 1,000M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable PC board thickness: 1.6mm(.063")

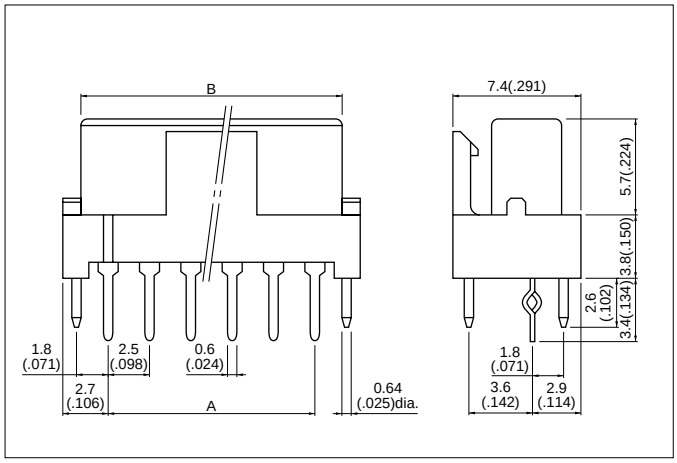
* Contact JST if Lead-Free product is required.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

Recognized E60389

Certified LR20812

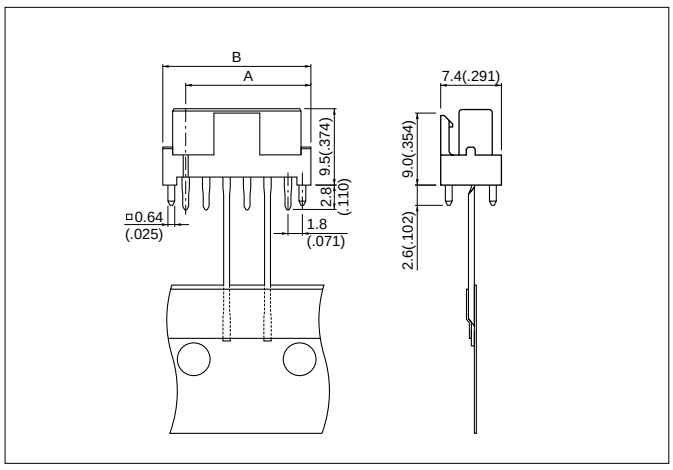
Receptacle



Circuits	Model No.	Dimensions mm(in.)		Q'ty / box
		A	B	
3	**03JL-BT-E**	5.0(.197)	8.2(.323)	250
4	**04JL-BT-E**	7.5(.295)	10.7(.421)	200
5	**05JL-BT-E**	10.0(.394)	13.2(.520)	200
6	**06JL-BT-E**	12.5(.492)	15.7(.618)	200
7	**07JL-BT-E**	15.0(.591)	18.2(.717)	200
8	**08JL-BT-E**	17.5(.689)	20.7(.815)	100
9	**09JL-BT-E**	20.0(.787)	23.2(.913)	100
10	**10JL-BT-E**	22.5(.886)	25.7(1.012)	100
11	**11JL-BT-E**	25.0(.984)	28.2(1.110)	100
12	**12JL-BT-E**	27.5(1.083)	30.7(1.209)	100
13	**13JL-BT-E**	30.0(1.181)	33.2(1.307)	100
15	**15JL-BT-E**	35.0(1.378)	38.2(1.504)	50

Material and Finish
Contact: Phosphor bronze, tin-plated Housing: Nylon 66, UL94V-0, blue Reinforcing pins: Brass, copper-undercoated, tin/lead-plated

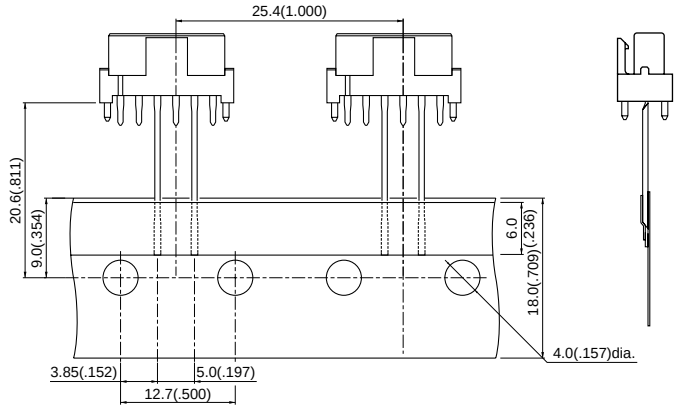
Receptacle on radial-tape



Circuits	Model No.	Dimensions mm(in.)	
		A	B
5	**05JL-BT-M-T**	10.0(.394)	15.4(.606)
6	**06JL-BT-M-T**	12.5(.492)	17.9(.705)
7	**07JL-BT-M-T**	15.0(.591)	20.4(.803)
8	**08JL-BT-M-T**	17.5(.689)	22.9(.902)

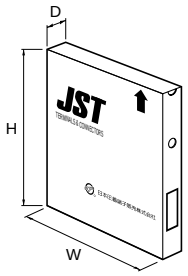
Material and Finish
Contact: Phosphor bronze, tin-plated Housing: Nylon 66, UL94V-0 Reinforcing pins: Brass, copper-undercoated, tin/lead-plated

Taping Specifications

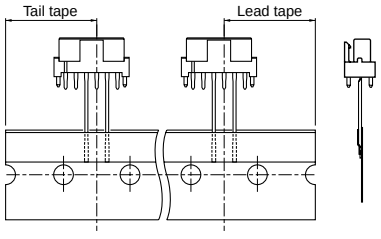


Note: Conforms to JIS C 0806.

Packaging specifications



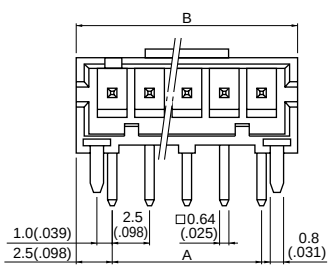
Distance between the end of the tape and the first connector's center line (either end)

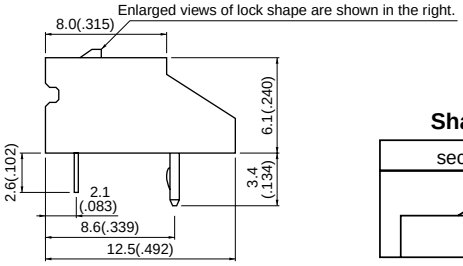


Pacage type	Flat pack(zigzag folded)
Distance between folds	24indexing holes perfold (304.8mm/12")
Box size	(315x48x285mm)12.4"(W)x1.8"(D)x11.2"(H)
Distance between the end of the tape and the first connector's center line (either end)	19.05mm(.750")

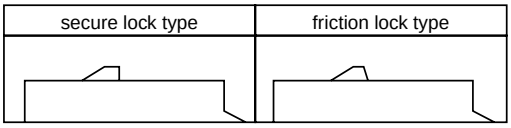
Products of different packaging specifications are also available.
Contact JST for details.

Shrouded header ----------





Shapes of Lock

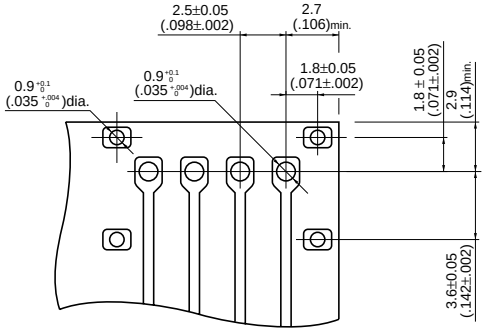


Cir-cuits	Model No.		Dimensions mm(in.)		Q'ty / box
	secure lock type	friction lock type	A	B	
3	**S 3B-JL-R**	**S 3B-JL-F-E**	5.0(.197)	10.0(.394)	250
4	**S 4B-JL-R**	**S 4B-JL-F-E**	7.5(.295)	12.5(.492)	200
5	**S 5B-JL-R**	**S 5B-JL-F-E**	10.0(.394)	15.0(.591)	200
6	**S 6B-JL-R**	**S 6B-JL-F-E**	12.5(.492)	17.5(.689)	200
7	**S 7B-JL-R**	**S 7B-JL-F-E**	15.0(.591)	20.0(.787)	200
8	**S 8B-JL-R**	**S 8B-JL-F-E**	17.5(.689)	22.5(.886)	100
9	**S 9B-JL-R**	**S 9B-JL-F-E**	20.0(.787)	25.0(.984)	100
10	**S10B-JL-R**	**S10B-JL-F-E**	22.5(.886)	27.5(1.083)	100
11	**S11B-JL-R**	**S11B-JL-F-E**	25.0(.984)	30.0(1.181)	100
12	**S12B-JL-R**	**S12B-JL-F-E**	27.5(1.083)	32.5(1.280)	100
13	**S13B-JL-R**	**S13B-JL-F-E**	30.0(1.181)	35.0(1.378)	100
15	**S15B-JL-R**	**S15B-JL-F-E**	35.0(1.387)	40.0(1.575)	100

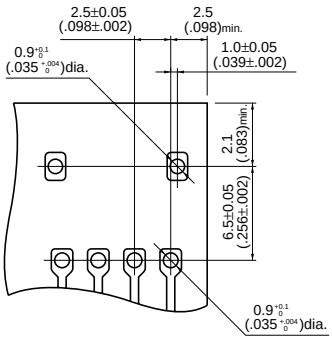
Material and Finish
Post: Brass, copper-undercoated, tin/lead-plated Wafer: Nylon 66, UL94V-0, red (secure lock type), blue (friction lock type) Reinforcing pins: Brass, copper-undercoated, tin-plated

PC board layout (viewed from soldering side)

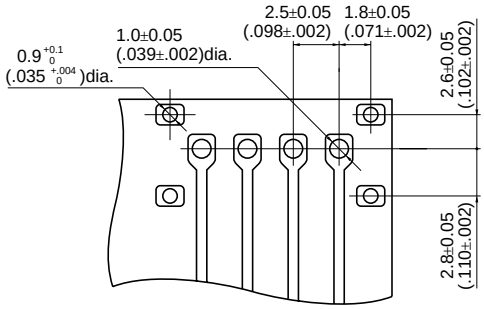
Receptacle



Shrouded header



Receptacle on radial-tape



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