

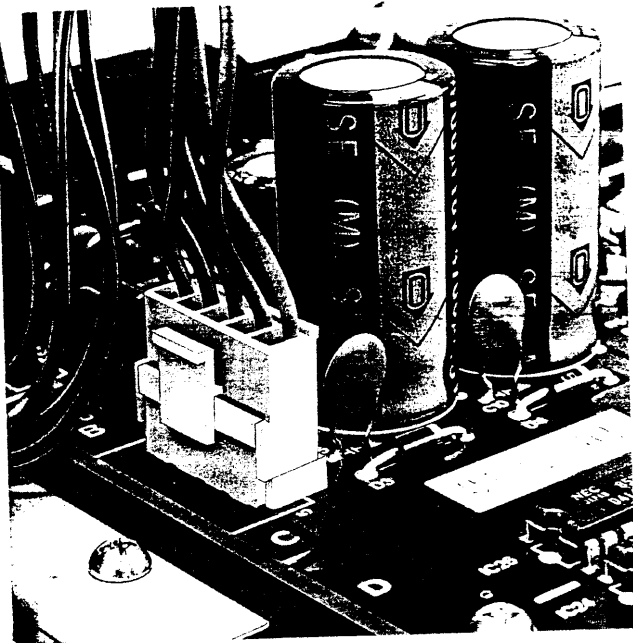
JST

Crimp

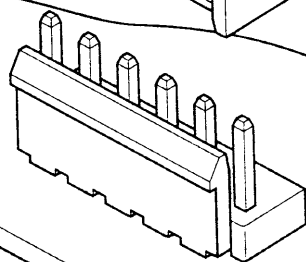
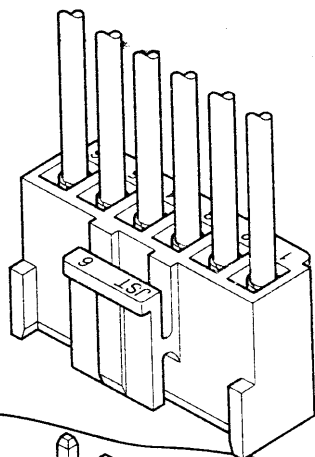
3.96mm
(.156") pitch

VH CONNECTOR

Disconnectable Crimp style connectors



This small, field-proven connector for printed circuit boards is reliable and has a large current carrying capacity. It can be used with a wide variety of signal, power supply, and output circuits that appear in consumer electronic products.



Features

• Side stackable

Connectors can be stacked side by side without causing pitch loss, and thus the number of circuits can easily be changed even after the design is finalized. This increases the engineer's freedom in designing printed circuit boards.

• Proven box contact

This connector was developed with the same box-shaped contact design used successfully in the NH connectors. The reliable VH connector can be used in a wide variety of applications, from low-voltage, low-current signal circuits to power supply circuits having a relatively large capacity.

• Compact connector with a large capacity

Even though this connector has a large current carrying capacity (7A), it is compact, with a mounting height of 16.5mm (.650").

• Secure contact and mounting

The housing has a lock mechanism which prevents the connector from coming loose due to vibration. The mechanism also prevents misinsertion (misalignment or reverse insertion).

Specifications

- Current rating: 7.0A AC, DC (AWG#18)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10mΩ max.
- After environmental testing/20mΩ max.
- Insulation resistance: 1,000MΩ min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #22 to #18
- Applicable PC board thickness: 1.6mm(.063")

Note:

Do not branch in parallel current which exceeds the rated current. If branched in parallel, current imbalance or other problems may develop. If it is absolutely necessary to branch such a large current in parallel, be sure to use contacts made of phosphor bronze. Design the circuits without causing imbalance and provide an extra margin for each circuit.

*Contact JST for details.

Standards

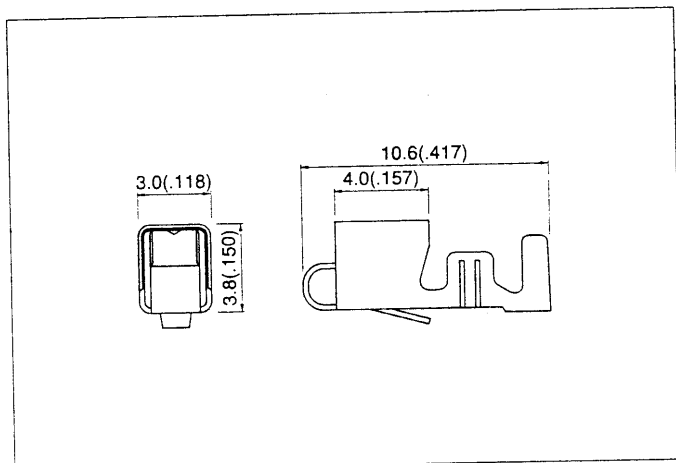
Recognized E60389

Certified LR20812

R75122

VH CONNECTOR

Contact



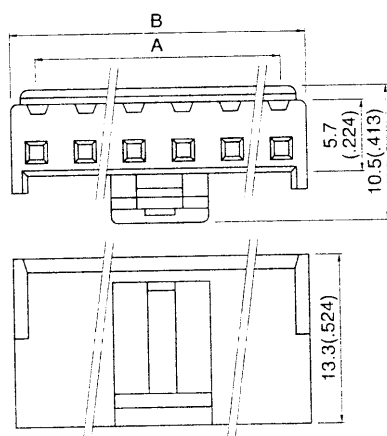
Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG #	Insulation O.D. mm(in.)	
SVH-21T-P1.1	0.33 to 0.83	22 to 18	1.7 to 3.0 (.067 to .118)	4,500

Material and Finish

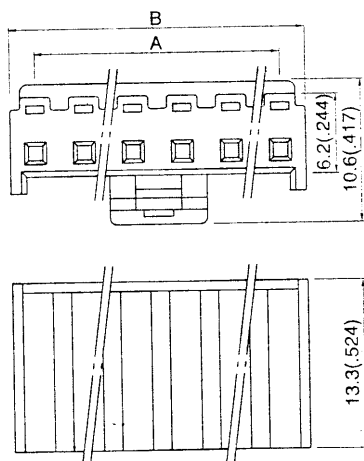
Phosphor bronze, tin-plated

Housing

N type



M type



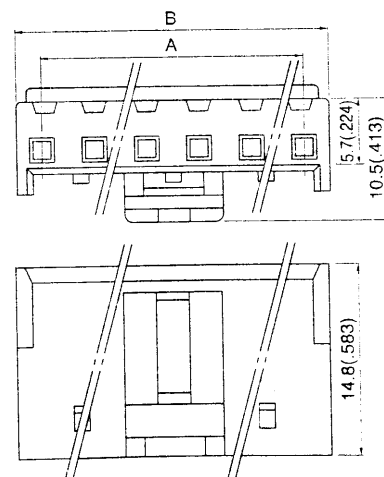
Cir- cuits	Model No.			Dimensions mm(in.)		Q'ty / bag
	N type	M type	Retainer mountable type	A	B	
2	VHR-2N	—	VHRR-2N	3.96(.156)	7.86(.309)	1,000
3	VHR-3N	VHR-3M	VHRR-3N	7.92(.312)	11.82(.465)	1,000
4	VHR-4N	VHR-4M	—	11.88(.468)	15.78(.621)	1,000
5	VHR-5N	VHR-5M	VHRR-5N	15.84(.624)	19.74(.777)	1,000
6	VHR-6N	VHR-6M	—	19.80(.780)	23.70(.933)	500
7	VHR-7N	VHR-7M	—	23.76(.935)	27.66(1.089)	500
8	VHR-8N	—	VHRR-8N	27.72(1.091)	31.62(1.245)	500
9	VHR-9N	VHR-9M	VHRR-9N	31.68(1.247)	35.58(1.401)	500
10	VHR-10N	—	—	35.64(1.403)	39.54(1.557)	500

Material

Nylon 6, UL94V-0, natural (white)

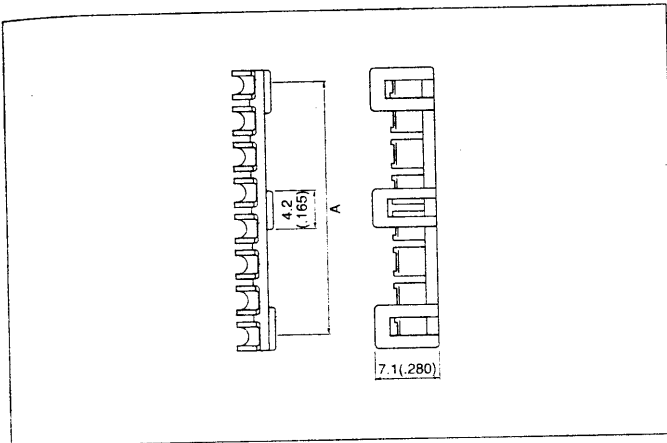
Note: 1. Models identified as VHR-() M incorporate measures to prevent electric shock and are thus safer in regard to high voltages.
2. Models VHRR-() N are not UL/CSA/TÜV approved.

Retainer mountable type



VH CONNECTOR

Retainer



Circuits	Model No.	A	Q'ty/bag
2	VHS-02V	3.96(.156)	1,000
3	VHS-03V	7.52(.296)	1,000
5	VHS-05V	15.44(.608)	1,000
8	VHS-08V	27.32(1.076)	1,000
9	VHS-09V	31.28(1.231)	1,000

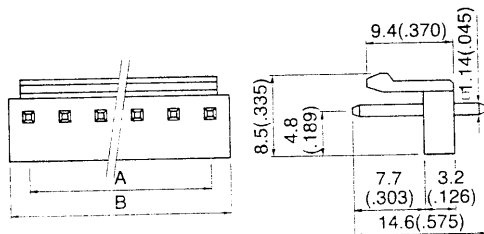
Material

Glass-filled nylon 66, UL94V-0, natural (ivory)

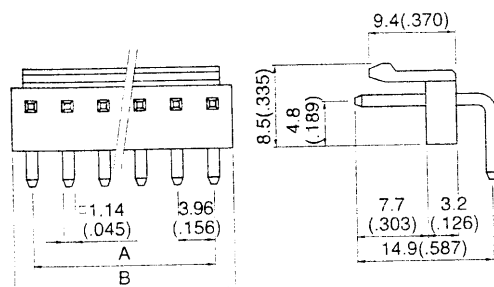
Note: Not UL/CSA/TUV approved.

Locking header

Top entry type



Side entry type



Circuits	Model No.		Dimensions mm(in.)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	B 2P-VH	B 2PS-VH	3.96(.156)	7.86(.309)	1,000	1,000
3	B 3P-VH	B 3PS-VH	7.92(.312)	11.82(.465)	1,000	500
4	B 4P-VH	B 4PS-VH	11.88(.468)	15.78(.621)	500	500
5	B 5P-VH	B 5PS-VH	15.84(.624)	19.74(.777)	500	250
6	B 6P-VH	B 6PS-VH	19.80(.780)	23.70(.933)	250	250
7	B 7P-VH	B 7PS-VH	23.76(.935)	27.66(1.089)	250	250
8	B 8P-VH	B 8PS-VH	27.72(1.091)	31.62(1.245)	200	200
9	B 9P-VH	B 9PS-VH	31.68(1.247)	35.58(1.401)	200	200
10	B10P-VH	B10PS-VH	35.64(1.403)	39.54(1.557)	200	200

Material and Finish

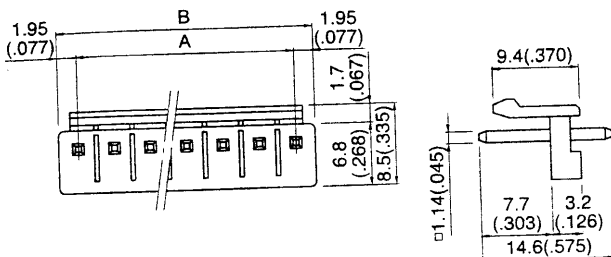
Post: Brass, copper-undercoated, tin/lead-plated
Water: Nylon 66, UL94V-0, natural (white)

Note: Headers with a reduced number of posts are also available.
Contact JST for details.

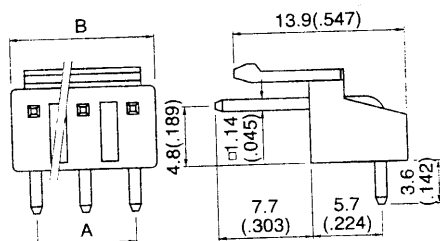
VH CONNECTOR

Locking header

Top entry type of PBT



Side entry type with PCB stabilizer



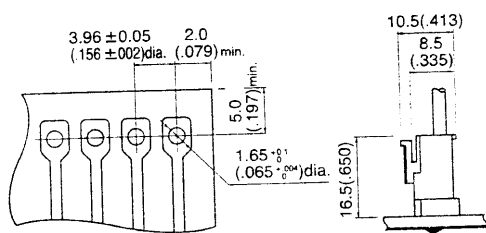
Cir- cuits	Model No.		Dimensions mm(in.)		Q'ty / box	
	Top entry type of PBT	Side entry type with PCB stabilizer	A	B	Top entry type	Side entry type
2	B 2P-VH-B	S2P-VH	3.96(.156)	7.86(.309)	1,000	1,000
3	B 3P-VH-B	S3P-VH	7.92(.312)	11.82(.465)	500	500
4	B 4P-VH-B	S4P-VH	11.88(.468)	15.78(.621)	500	—
5	B 5P-VH-B	—	15.84(.624)	19.74(.777)	250	—
6	B 6P-VH-B	—	19.80(.780)	23.70(.933)	250	—
7	B 7P-VH-B	—	23.76(.935)	27.66(1.089)	250	—
8	B 8P-VH-B	—	27.72(1.091)	31.62(1.245)	200	—
9	B 9P-VH-B	—	31.68(1.247)	35.58(1.401)	200	—
10	B10P-VH-B	—	35.64(1.403)	39.54(1.557)	200	—

Material and Finish

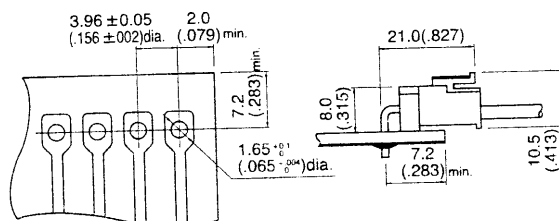
Post: Brass, copper-undercoated, tin/lead-plated natural
 Water: Top entry type PBT: PBT, UL94V-0, natural (ivory)
 Side entry type with PCB stabilizer: Nylon 66, UL94V-0, natural (white)

PC board layout (viewed from soldering side) and Assembly layout

Top entry type

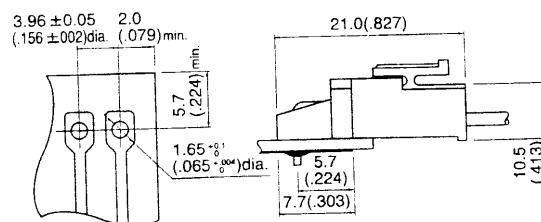


Side entry type



*11.0(.433) max. when used with the VR connector receptacle.

Side entry type with PCB stabilizer



Note:

1. Tolerances are non-cumulative: $\pm 0.05\text{mm}(\pm .002)$ 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.