





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.

- Proven box contact
- Compact connector with a large capacity
- Secure contact and mounting



Note: 1. The above figure is the figure viewed from soldering side.

2. Tolerances are non-cumulative: ±0.05mm for all centers.

3. Please consider the pattern layout design in case of applying the large current.

4. 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.

# Specifications —

- Current rating: 10A AC, DC (AWG #16)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C

(including temperature rise in applying electrical current)

- Contact resistance: Initial value/ 10m  $\Omega$  max. After environmental testing/ 20m  $\Omega$  max.
- Insulation resistance: 1,000M  $\Omega$  min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #22 to #16

Applicable PC board thickness: 1.6mm

### 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.

- \* Compliant with RoHS.
- \* Refer to "General Instruction and Notice when using
- Terminals and Connectors" at the end of this catalog.
- \* Contact JST for details.

# Standards-

- Recognized E60389
- G: Certified LR20812
- A R75122

## Locking header Side entry type



\*11.0 max. when used with the VR connector receptacle.

### Shrouded header



1 **JST** 

# **VH CONNECTOR**

## Contact



Model No.	<u> </u>		Insulation O.D. (mm)	Q'ty / reel	
	mm <sup>2</sup>	AWG#	(((((((((((((((((((((((((((((((((((((((	Q., 7 1001	
SVH-21T-P1.1	0.33~0.83	22~18	1.7~3.0	4,500	
SVH-41T-P1.1	0.5 ~1.25	20~16	1.7~3.0	3,500	
Material and Finish					

Phosphor bronze, tin-plated (reflow treatment)

#### RoHS compliance

### Note: 1. Contact JST for brass products.

 When using retainer mountable type housing, applicable wire's insulation O. D. shall be 1.7 to 2.2mm.

Contact	Crimping		Applicator	
Contact	machine	Crimp applicator	Dies	Crimp applicator with dies
SVH-41T-P1.1	AP-K2N	MKS-L	MK/SVH-41-11	APLMK SVH41-11
3VN-411-P1.1		-	—	-

Note: \*Strip-crimp applicator

# Housing



		Model No.		Dimensio	ons (mm)	Q'ty /	
Circuits	N type	M type	Retaine mountable type	A	В	bag	
2	VHR-2N	VHR-2M	VHRR-2N	3.96	7.86	1,000	
3	VHR-3N	VHR-3M	VHRR-3N	7.92	11.82	1,000	
4	VHR-4N	VHR-4M	—	11.88	15.78	1,000	
5	VHR-5N	VHR-5M	VHRR-5N	15.84	19.74	1,000	
6	VHR-6N	VHR-6M	—	19.80	23.70	500	
7	VHR-7N	VHR-7M	VHRR-7N	23.76	27.66	500	
8	VHR-8N		VHRR-8N	27.72	31.62	500	
9	VHR-9N	VHR-9M	VHRR-9N	31.68	35.58	500	
10	VHR-10N	_	—	35.64	39.54	500	
11	VHR-11N		_	39.60	43.50	500	
Material							

PA 6, UL94V-0, natural (white)

### **RoHS compliance**

## Retainer



Note: 1. Models identified as VHR-( ) M incorporate measures to prevent
electric shock and are thus safer in regard to high voltages.
2. The applicable housing for 2 circuits shrouded header is "VHR-2N"
only. "VHRR-2N" is not applicable.

*<For reference> As the color identification,* 

the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. VHR-2N-<u>oo</u>

## (blank)...natural (white)

BK...black R...red BL...blue M...green D...orange Y...yellow PK...pink H...gray

Circuits	Model No.	А	Q'ty / bag
2	VHS-2V	3.70	1,000
3	VHS-3V	7.52	1,000
5	VHS-5V	15.44	1,000
7	VHS-7V	23.36	1,000
8	VHS-8V	27.32	1,000
9	VHS-9V	31.28	1,000
	Materia	al	1

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

RoHS compliance

# **VH CONNECTOR**

# Locking header





	Model No.		Dimensions (mm)		Q'ty / box	
Circuits	Top entry type	Side entry type	А	В	Top entry type	Side entry type
2	B2P-VH	B2PS-VH	3.96	7.86	1,000	1,000
3	B3P-VH	B3PS-VH	7.92	11.82	1,000	500
4	B4P-VH	B4PS-VH	11.88	15.78	500	500
5	B5P-VH	B5PS-VH	15.84	19.74	500	250
6	B6P-VH	B6PS-VH	19.80	23.70	250	250
7	B7P-VH	B7PS-VH	23.76	27.66	250	250
8	B8P-VH	B8PS-VH	27.72	31.62	200	200
9	B9P-VH	B9PS-VH	31.68	35.58	200	200
10	B10P-VH	B10PS-VH	35.64	39.54	200	100

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment) Wafer: PA 66 UL94V-0, natural (white)

**RoHS compliance** This product displays (LF)(SN) on a label. Note: Headers with a reduced number of posts are also available. Contact JST for details.

<For reference> As the color identification,

the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. B2P(S)-VH-oo

(blank)...natural (white) BK...black R...red TR...tornato red BL...blue M...green O...orange Y...yellow PK...pink H...gray

	Mode	el No.	Dimensions (mm)		Q'ty / box	
Circuits	Top entry type of PBT	Side entry type with PCB stabilizer	A	В	Top entry type	Side entry type
2	B2P-VH-B	S2P-VH	3.96	7.86	1,000	1,000
3	B3P-VH-B	S3P-VH	7.92	11.82	1,000	500
4	B4P-VH-B	S4P-VH	11.88	15.78	500	500
5	B5P-VH-B	S5P-VH	15.84	19.74	500	250
6	B6P-VH-B	S6P-VH	19.80	23.70	250	250
7	B7P-VH-B	S7P-VH	23.76	27.66	250	250
8	B8P-VH-B	—	27.72	31.62	200	-
9	B9P-VH-B	—	31.68	35.58	200	_
10	B10P-VH-B	—	35.64	39.54	200	_
11	B11P-VH-B	—	39.60	43.50	200	—

#### Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment) Wafer: Top entry type of PBT: Glass-filled PBT, UL94V-0, natural (white) Side entry type with PCB stabilizer: PA 66, UL94V-0, natural (white)

**RoHS compliance** This product displays (LF)(SN) on a label.

<For reference> As the color identification,

the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

<Top entry type of PBT>

- ex. B2P-VH-B-oo
  - (blank)...natural (white)
  - C...black R...red E...blue M...green Y...yellow
- <Side entry type with PCB stabilizer>

ex. S2P-VH-oo

(blank)...natural (white)

BK...black R...red BL...blue Y...yellow M...green

# **VH CONNECTOR**

## Shrouded header



Circuits	Model No.	Dimens	Dimensions (mm)		
Circuits	wodel no.	A	В	Q'ty / box	
2	B2P-VH-FB-B	3.96	9.80	250	
3	B3P-VH-FB-B	7.92	13.76	200	
4	B4P-VH-FB-B	11.88	17.72	150	
5	B5P-VH-FB-B	15.84	21.68	200	
6	B6P-VH-FB-B	19.80	25.64	200	
7	B7P-VH-FB-B	23.76	29.60	100	
8	B8P-VH-FB-B	27.72	33.56	100	
9	B9P-VH-FB-B	31.68	37.52	100	
10	B10P-VH-FB-B	35.64	41.48	125	

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Wafer: Glass-filled PBT, UL94V-0, natural (white)

**RoHS compliance** This product displays (LF)(SN) on a label.

Note: The applicable housing for 2 circuits shrouded header is "VHR-2N" only. "VHRR-2N" is not applicable.

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. B2P-VH-FB-B-oo

(blank)...natural (white) R...red C...black E...blue M...green Y...yellow O...orange H...gray PK...pink