





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

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 Ω max. After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω 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.

- * RoHS compliant products are published.
- * Temperature Range:
- The aforementioned temperature range of this connector is described in JST Standard Product Specification. Maximum temperature registered in UL is 105°C.
- * 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

Locking header

A R75122

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





Locking header Side entry type with PCB stabilizer



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

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

3. 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.

64 **JST**

Side entry type 3.96^{±0.0} 20.5 5 φ 1.65^{+0.}

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

Shrouded header



VH CONNECTOR

Contact



Model No.	Applicable wire		Insulation O.D.	O'the / real	
WOULEI NO.	mm²	AWG#	(mm)	Q'ty / reel	
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.

2. 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
3VII-411-P1.1	AP-K2N	-	-	-

Note: *Strip-crimp applicator

Model No.

M type

VHR-2M

VHR-3M

VHR-4M

VHR-5M

VHR-6M

VHR-7M

VHR-9M

Retaine mountable type

*VHRR-2N

*VHRR-3N

*VHRR-5N

*VHRR-7N

*VHRR-8N

*VHRR-9N

Material PA 6, UL94V-0, natural (white) 11.88

15.84

19.80

23.76

27.72

31.68

35.64

39.60

15.78

19.74

23.70

27.66

31.62

35.58

39.54

43.50

1,000

1,000

500

500

500

500

500

500

Housing

Cir-cuits

2

3

4

5

6

7

8

9

10

11

N type

VHR-2N

VHR-3N

VHR-4N

VHR-5N

VHR-6N

VHR-7N

VHR-8N

VHR-9N

VHR-10N

*VHR-11N



A B Qty / bag 3.96 7.86 1.000 electric shock and are thus safer in regard to high voltage 2. The applicable housing for 2 circuits shrouded header is ' only. "VHRR-2N" is not applicable.	mensions (mm)	I
	A B	Ī
	3.96 7.86	
7.92 11.82 1,000 3. *Marked products are not TÜV approved.	7.92 11.82	

As the color identification, <For reference>

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

ex. VHR-2N-00

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

RoHS compliance	



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

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

RoHS compliance Note: Not TÜV approved.

VH CONNECTOR

Locking header









Cir- cuits Top e typ 2 B2P-' 3 B3P-' 4 B4P-' 5 B5P-'	ve t VH B2F VH B3F VH B4F	e entry type PS-VH PS-VH PS-VH	A 3.96 7.92 11.88	B 7.86 11.82 15.78	Top entry type 1,000 1,000 500	Side entry type 1,000 500
3 B3P-' 4 B4P-' 5 B5P-'	VH B3F VH B4F	PS-VH PS-VH	7.92	11.82	1,000	500
4 B4P- 5 B5P-	VH B4F	PS-VH	-		,	
5 B5P-			11.88	15.78	500	500
					500	500
	∨н ∣ В5Р	PS-VH	15.84	19.74	500	250
6 B6P-	VH B6F	PS-VH	19.80	23.70	250	250
7 B7P-	VH B7F	PS-VH	23.76	27.66	250	250
8 B8P-	VH B8F	PS-VH	27.72	31.62	200	200
9 B9P-	VH B9F	PS-VH	31.68	35.58	200	200
10 B10P	-VH B10	PS-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.	Dimensio	ons (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 (ivory) Side entry type with PCB stabilizer: PA 66, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label. Note: *Marked product is not TÜV approved.

<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 (ivory)
 - 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.	Dimensi	0/4 / 4	
Circuits	woder 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