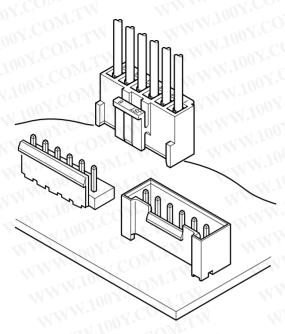


VH CONNECTOR

3.96mm pitch/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.

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

勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

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.

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

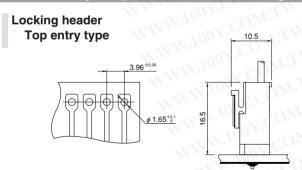
Standards-

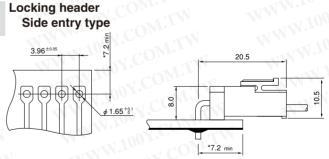
Recognized E60389

⊕ Certified LR20812

△ R75122

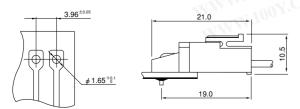
PC board layout (viewed from soldering side) and Assembly layout





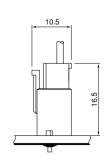
*11.0 max. when used with the VR connector receptacle.

Locking header Side entry type with PCB stabilizer



3.96^{±0.05} 1.5^{±0.05} \$\delta 1.4 \big|^{\infty}\$ Circuit No.1 \$\delta 1.65 \big|^{\infty}\$ \$\delta 1.65 \big|^{\infty}\$

Shrouded header

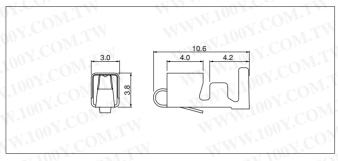


Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

- 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.

WWW.100Y.COM.TW **VH CONNECTOR**

Contact



Contact	Crimping	Applicator		
Contact	machine	Crimp applicator	Dies	Crimp applicator with dies
SVH-21T-P1.1	AP-K2N	MKS-L	MK/SVH-21-11	APLMK SVH21-11
		*MKS-SC	SC/SVH-21-11	APLSC SVH21-11

Note: *Strip-crimp applicator

Model No.	Applical	ole wire	Insulation O.D.	Q'ty / reel	
	mm²	AWG#	(mm)		
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)

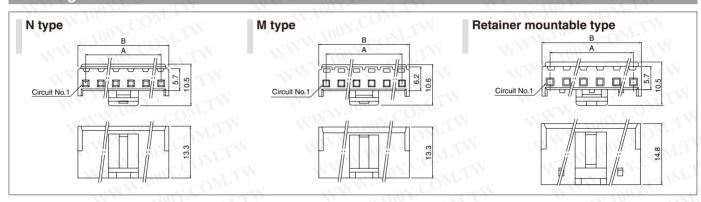
RoHS compliance

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	
		1117	COA		

Housing



		Model No.	Model No.			Q'ty /	
Circuits	Circuits N type	M type	Retaine mountable type	Α	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	- 1 th	11.88	15.78	1,000	
5	VHR-5N	VHR-5M	*VHRR-5N	15.84	19.74	1,000	
6	VHR-6N	VHR-6M	1007	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	_	10	35.64	39.54	500	
11	*VHR-11N	_	MM -	39.60	43.50	500	

PA 6, UL94V-0, natural (white)

Material

RoHS compliance

- 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.
 - 3. *Marked products are not TÜV approved.

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.

(blank)...natural (white)

WWW.100Y.CO! BK...black R...red BL...blue M...green D...orange Y...yellow PK...pink H...gray

Retainer

2.6 2 circuits: 2 3 to 9 circuits: 4 1 7.1

Circuits	Model No.	Α	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

Material

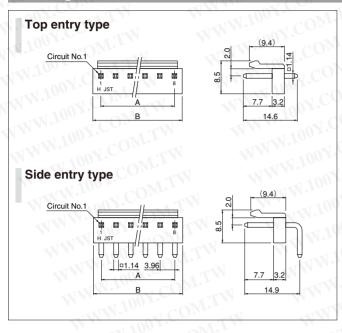
Glass-filled PA 66, UL94V-0, natural (ivory)

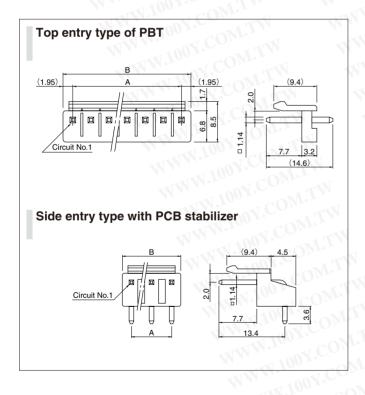
RoHS compliance

Note: Not TÜV approved.

VH CONNECTOR

Locking header





	Mod	el No.	Dimensions (mm)		Q'ty / box	
Circuits	Top entry type	Side entry type	A	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...tomato red BL...blue M...green

O...orange Y...yellow PK...pink H...gray

1 100	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	Cr	27.72	31.62	200	. σTÝ
9	B9P-VH-B		31.68	35.58	200	$In\overline{a}$.
10	B10P-VH-B	V.C	35.64	39.54	200	4.00
11	*B11P-VH-B	= 0	39.60	43.50	200	1.700

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. 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 (white)

C...black R...red E...blue M...green Y...yellow

<Side entry type with PCB stabilizer>

ex. S2P-VH-oo

(blank)...natural (white)

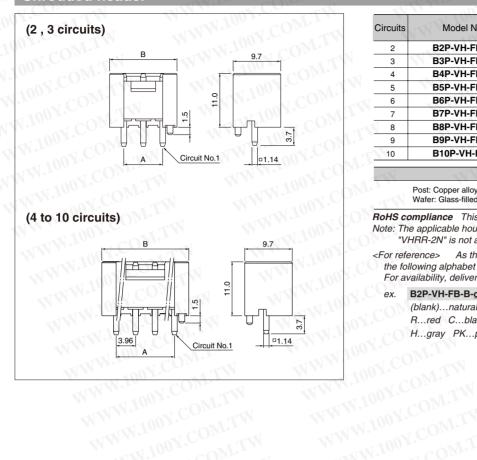
BK...black R...red BL...blue Y...yellow M...green

WWW.100Y.COM.TW .100Y.COM.TW **VH CONNECTOR**

Shrouded header

700X.COW

W.100 NW.100Y.C



Circuits	Madel No	Dimensi	011 /1	
Circuits	Model No.	Α	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.

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.

B2P-VH-FB-B-oo

(blank)...natural (white)

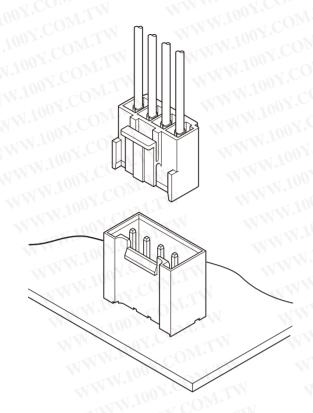
R...red C...black E...blue M...green Y...yellow O...orange

H...gray PK...pink



CONNECTOR (High box type)

3.96mm pitch/Disconnectable Crimp style connectors



Header for 3.96mm pitch VH connector for use specifically with resin coated ("potted") PC boards.

Interchangeability

Specifications

• Current rating: 7A AC, DC (AWG #18)

10A AC, DC (AWG #16)/1 circuit only

250V AC, DC Voltage rating: • 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.

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

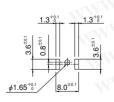
Standards -

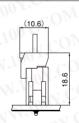
Recognized E60389

© Certified LR20812

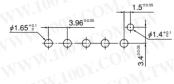
△ R75122

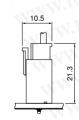
1 circuit





2 to 8 circuits

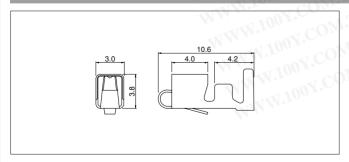




Note: 1.Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guide line. Contact JST for details.

Contact



Contact	Crimping	Applicator		
	machine	Crimp applicator	Dies	Crimp applicator with dies
SVH-21T-P1.1	AP-K2N	MKS-L	MK/SVH-21-11	APLMK SVH21-11
3411-211-61.1		*MKS-SC	SC/SVH-21-11	APLSC SVH21-11
		WIINO-00	00/0VII-21-11	AI LOO OVIIZI

Note: *Strip-crimp applicator

Model No.	Applica	ble wire	1 11 00 ()	Q'ty / reel	
	mm²	AWG#	Insulation O.D. (mm)		
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. *The current rating when combining with 1 circuit is 10A AC, DC (AWG #16.)

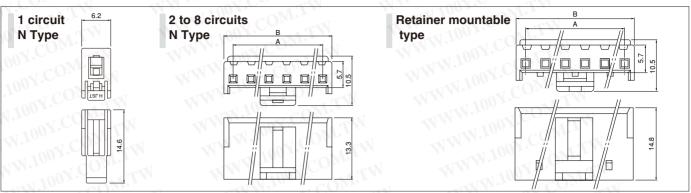
2. Contact JST for brass product.

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
3411-411-71.1	AP-NZIN	_	_	_

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VH CONNECTOR (High box type)

Housing



Mo	odel No.	Dimensions (mm)		Q'ty /
N type	Retainer mountable type	A <	В	bag
*VHR-1N	10M- <u>+</u>	_	- (TN)	1,000
VHR-2N	-r11	3.96	7.86	1,000
VHR-3N	*VHRR-3N	7.92	11.82	1,000
VHR-4N	7 TW	11.88	15.78	1,000
VHR-5N	*VHRR-5N	15.84	19.74	1,000
VHR-6N	Or TWIN	19.80	23.70	500
VHR-7N	*VHRR-7N	23.76	27.66	500
VHR-8N	*VHRR-8N	27.72	31.62	500
	N type *VHR-1N VHR-2N VHR-3N VHR-4N VHR-5N VHR-6N VHR-7N	*VHR-1N — VHR-2N — VHR-3N	N type Retainer mountable type A *VHR-1N — — VHR-2N — 3.96 VHR-3N *VHRR-3N 7.92 VHR-4N — 11.88 VHR-5N *VHRR-5N 15.84 VHR-6N — 19.80 VHR-7N *VHRR-7N 23.76	N type Retainer mountable type A B *VHR-1N — — VHR-2N — 3.96 7.86 VHR-3N *VHRR-3N 7.92 11.82 VHR-4N — 11.88 15.78 VHR-5N *VHRF-5N 15.84 19.74 VHR-6N — 19.80 23.70 VHR-7N *VHRR-7N 23.76 27.66

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

RoHS compliance

Note: *Marked products are not TÜV approved. <For reference> As the color identification,

the following alphabet shall be put in the underlined part.

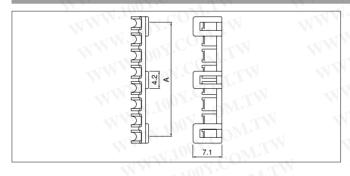
For availability, delivery and minimum order quantity, contact JST.

ex. VHR-2N-oo

(blank)...natural (white)

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

Retainer



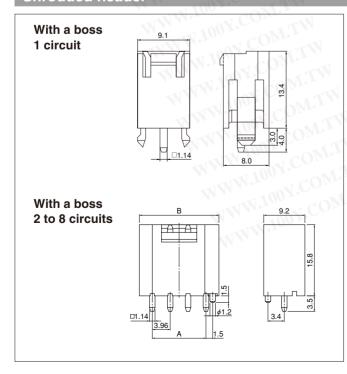
Circuits	Model No.	A	Q'ty / bag
2	VHS-2V	3.70	1,000
3	VHS-3V	7.52	1,000
5	VHS-5V	15.44	1,000
7	VHS-7V	23.36	1,000
8	VHS-8V	27.32	1,000
9	VHS-9V	31.28	1,000

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

RoHS compliance

Note: Not TÜV approved.

Shrouded header



Circuits	Model No.	Q'ty / box	
	With a boss	Q ty / box	
1	BH1P-VH-1	500	

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment) Wafer: PA 66, UL-94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label. Note: Not TÜV approved.

Circuits	Model No.	Dimensions (mm)		Q'ty / box
	With a boss	Α	В	Q ty / box
2	BH2P-VH-1	3.96	9.80	250
3	BH3P-VH-1	7.92	13.76	200
4	BH4P-VH-1	11.88	17.72	150
5	BH5P-VH-1	15.84	21.68	100
6	BH6P-VH-1	19.80	25.64	100
7	BH7P-VH-1	23.76	29.60	100
8	BH8P-VH-1	27.72	33.56	100

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment) Wafer: Glass-filled PA 66, UL-94V-0, natural (ivory)

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.

ex. BH2P-VH-1-00

(blank)...natural (ivory) BK...black R...red BL...blue M...green