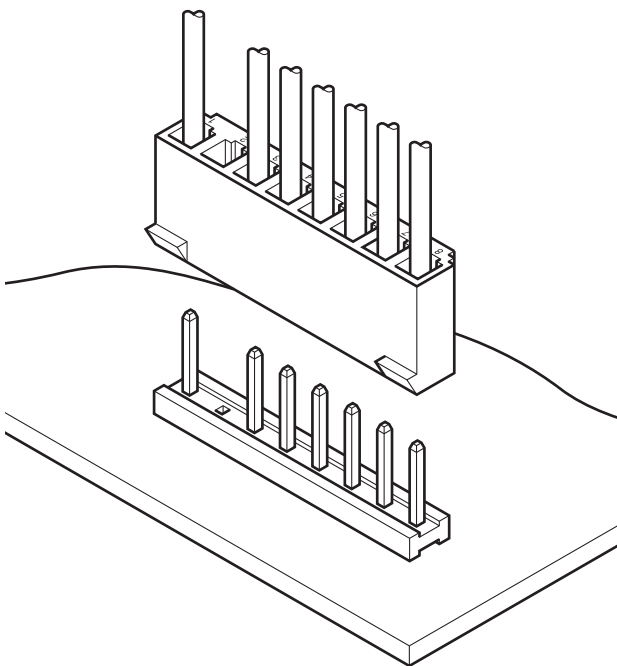


VB CONNECTOR

Disconnectable Crimp style connectors



This large current carrying capacity connector for printed circuit boards can be used with primary power supply circuits of consumer electronic products and various other circuits requiring large currents.



Features

• Proven box-shaped contact

This connector was designed and developed for use in the power supply circuits utilizing the contacts so successfully used in the VH connector.

Specifications

- Current rating: 7 A AC/DC (AWG #18)
- Voltage rating: 250 V AC/DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10 mΩ max.
After environmental tests/ 20 mΩ max.
- Insulation resistance: 500 MΩ min.
- Withstanding voltage: 1,500 VAC/minute
- Applicable wire: AWG #22 to #18
- Applicable PC board thickness: 1.6 mm

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, design the circuits without causing imbalance and provide an extra margin for each circuit.

* In using the products, refer to "Handling Precautions for Terminals and Connectors" described on our website (Technical documents of Product information page).

* RoHS2 compliance

* Dimensional unit: mm

* Contact JST for details.

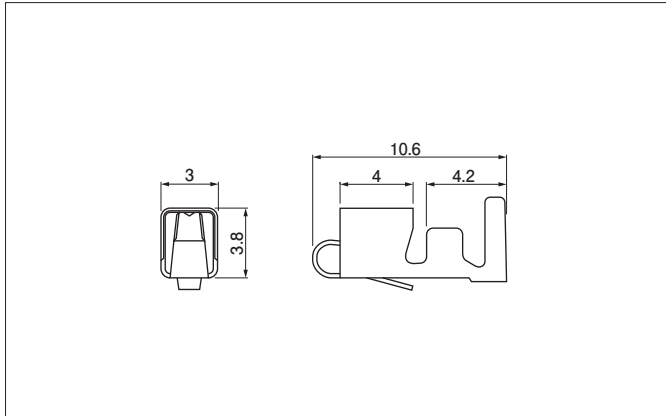
Standards

Ⓜ Recognized E60389

Ⓢ Certified LR20812

VB CONNECTOR

Contact



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

Material and Finish

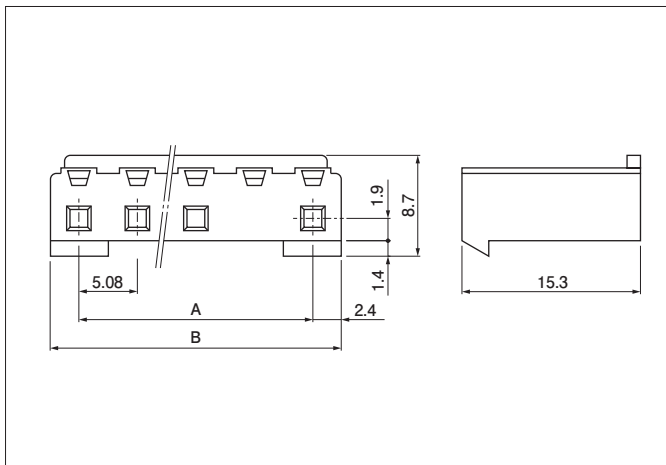
Phosphor bronze, tin-plated (reflow treatment)

RoHS2 compliance

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

Note: Contact JST for fully automatic crimping applicator.

Housing



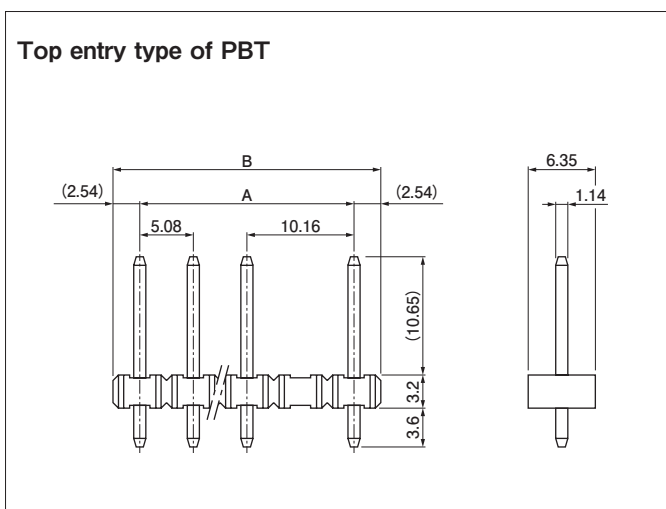
| No. of circuits | Model No. | Dimensions (mm) | | Q'ty/bag |
|-----------------|------------|-----------------|-------|----------|
| | | A | B | |
| 2 | VBR-2 | 5.08 | 9.88 | 1,000 |
| 2 | VBR-2(3) | 10.16 | 14.96 | 1,000 |
| 3 | VBR-3 | 10.16 | 14.96 | 1,000 |
| 3 | VBR-3(4) | 15.24 | 20.04 | 1,000 |
| 4 | VBR-4(5) | 20.32 | 25.12 | 1,000 |
| 5 | VBR-5(6) | 25.40 | 30.20 | 500 |
| 6 | VBR-6(7) | 30.48 | 35.28 | 500 |
| 7 | VBR-7(8) | 35.56 | 40.36 | 500 |
| 8 | VBR-8(9) | 40.64 | 45.44 | 500 |
| 9 | VBR-9(10) | 45.72 | 50.52 | 500 |
| 12 | VBR-12(13) | 60.96 | 65.76 | 200 |

Material and Finish

PA 6, UL94V-0, natural (white)

RoHS2 compliance

Header



| No. of circuits | Model No. | Dimensions (mm) | | Q'ty/box |
|-----------------|-------------|-----------------|-------|----------|
| | | A | B | |
| 2 | B2P-VB-2 | 5.08 | 10.16 | 1,000 |
| 2 | B2P3-VB-2 | 10.16 | 15.24 | 500 |
| 3 | B3P-VB-2 | 10.16 | 15.24 | 500 |
| 3 | B3P4-VB-2 | 15.24 | 20.32 | 500 |
| 4 | B4P-VB-2 | 15.24 | 20.32 | 500 |
| 4 | B4P5-VB-2 | 20.32 | 25.40 | 250 |
| 5 | B5P6-VB-2 | 25.40 | 30.48 | 250 |
| 6 | B6P7-VB-2 | 30.48 | 35.56 | 200 |
| 7 | B7P8-VB-2 | 35.56 | 40.64 | 200 |
| 8 | B8P9-VB-2 | 40.64 | 45.72 | 200 |
| 9 | B9P10-VB-2 | 45.72 | 50.80 | 100 |
| 12 | B12P13-VB-2 | 60.96 | 66.04 | 100 |

Material and Finish

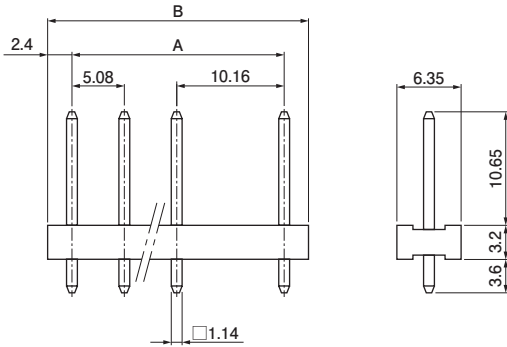
Post: Brass copper-undercoated, tin-plated (reflow treatment)
Wafer: PBT, UL94V-0, natural (white)

RoHS2 compliance This product displays (LF) (SN) on a label.

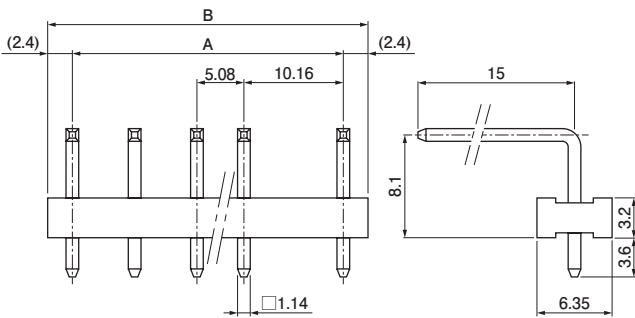
VB CONNECTOR

Header

Top entry type of PA



Side entry type of PA



| No. of circuits | Model No. | | Dimensions (mm) | | Q'ty/box | |
|-----------------|----------------|-----------------|-----------------|-------|----------------|-----------------|
| | Top entry type | Side entry type | A | B | Top entry type | Side entry type |
| 2 | B2P-VB | B2PS-VB | 5.08 | 9.88 | 1,000 | 1,000 |
| 2 | B2P3-VB | — | 10.16 | 14.96 | 500 | — |
| 3 | B3P4-VB | B3P4S-VB | 15.24 | 20.04 | 500 | 250 |
| 4 | B4P5-VB | B4P5S-VB | 20.32 | 25.12 | 250 | 200 |
| 5 | B5P6-VB | B5P6S-VB | 25.40 | 30.20 | 250 | 200 |
| 6 | B6P7-VB | B6P7S-VB | 30.48 | 35.28 | 200 | 100 |
| 7 | B7P8-VB | B7P8S-VB | 35.56 | 40.36 | 200 | 100 |
| 8 | B8P9-VB | B8P9S-VB | 40.64 | 45.44 | 200 | 100 |
| 9 | B9P10-VB | B9P10S-VB | 45.72 | 50.52 | 100 | 100 |
| 12 | B12P13-VB | B12P13S-VB | 60.96 | 65.76 | 100 | 100 |

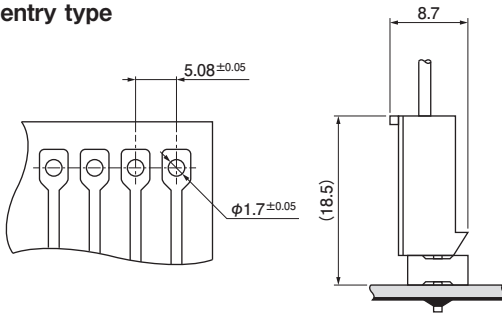
Material and Finish

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

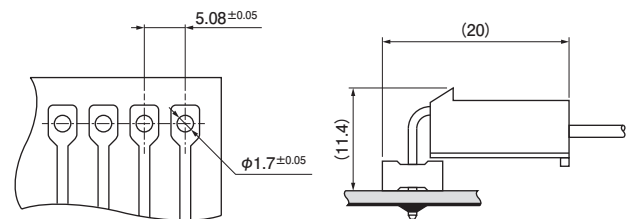
RoHS2 compliance This product displays (LF)(SN) on a label.

PC board layout and Assembly layout

Top entry type



Side entry type



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

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

3. Hole dimensions differ according to the type of PC board and piercing method. The dimensions above should serve as a guideline.
Contact JST for details.

Model number allocation

Contact

S VH - 21 T - P 1.1

Form: S··Strip form, B··Loose piece

Series name

Applicable wire range: 21··AWG #22 to #18

Surface finish: T··Tin-plated (reflow treatment)

Material: P··Phosphor bronze

Terminal size

Housing

VBR - 3 (4)

Series name

Part name: Receptacle

No. of circuits: 2 to 9, 12

Indicates that the second pin of the 4-circuit product is filled with resin.

Header

B 3 P 4 - VB - 2

Assembled product:

No. of circuits: 2 to 9, 12

Indicates that the second pin of the 4-circuit product is filled with resin.

Shape of assembled product: None··Top entry type
S··Side entry type

Series name

Material: None··PA 66, 2··PBT