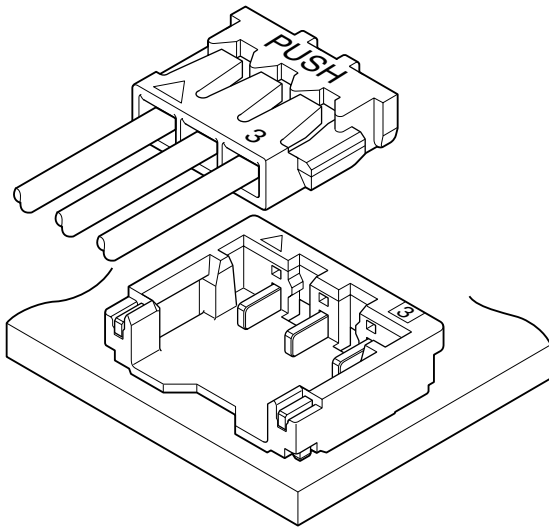


# ACH CONNECTOR

1.2mm pitch/Disconnectable Crimp style connectors



**This ACH connector is compact and low profile type, height 1.4mm and width 4.3mm, 1.2mm pitch wire-to-board connector.**

- Top entry but side feed type
- Connector for DC power supply
- Corresponding to sucking nozzle of pick and place machine

## Specifications

- Current rating: 2 A/1 to 3 circuits AC, DC (AWG #28)  
1.5 A/4, 5 circuits AC, DC (AWG #28)
- Voltage rating: 50 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: 100 MΩ min.
- Withstanding voltage: 500 VAC/minute
- Applicable wire: Conductor size/ AWG #32 to #28  
Insulation O.D./ 0.38 to 0.63 mm

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

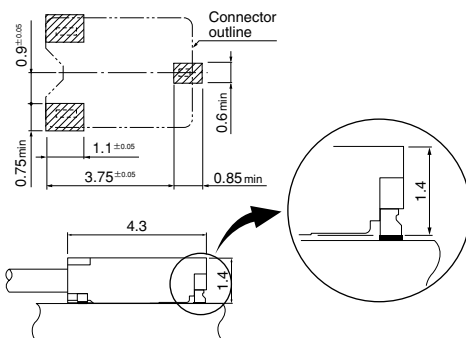
## Standards

Recognized E60389

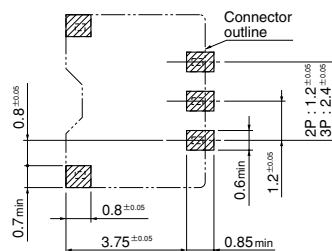
Certified LR20812

## PC board layout and Assembly layout

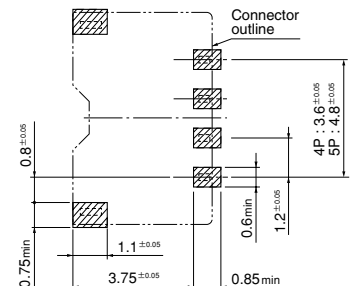
### <Single circuit>



### <2, 3 circuits>

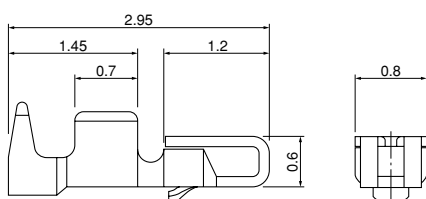


### <4, 5 circuits>



- Note: 1. The above figure is the figure viewed from the connector mounting side.  
2. Tolerances are non-cumulative:  $\pm 0.05$  mm for all centers.  
3. The dimensions above should serve as a guideline. Contact JST for details.

## Contact



| Model No.       | Applicable wire |       | Insulation O.D. (mm) | Q'ty/reel |
|-----------------|-----------------|-------|----------------------|-----------|
|                 | mm <sup>2</sup> | AWG#  |                      |           |
| SACH-003G-P0.2  | 0.05 ~ 0.08     | 30~28 | 0.5 ~ 0.63           | 30,000    |
| SACH-003G-P0.2B | 0.032~0.05      | 32~30 | 0.38~0.5             | 30,000    |

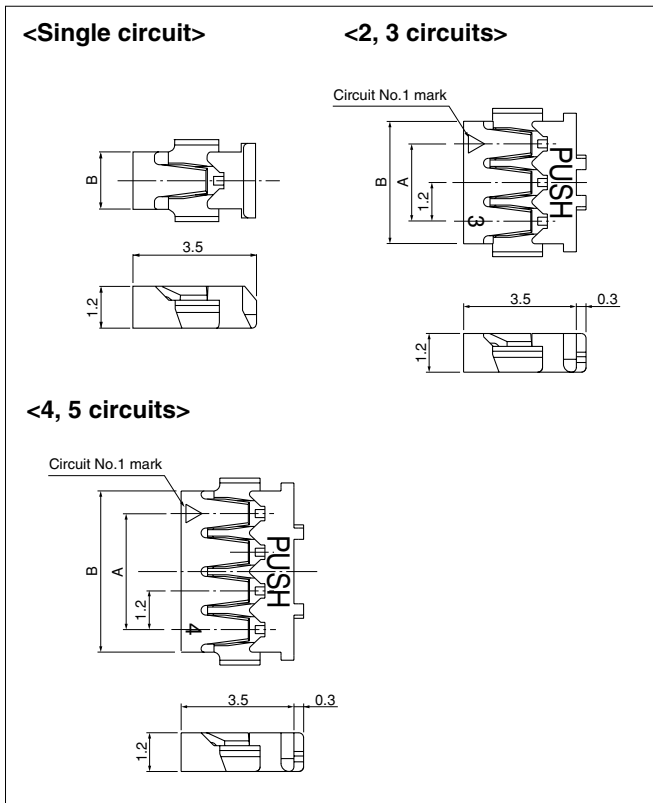
### Material and Finish

Copper alloy, nickel-undercoated, gold-plated

### RoHS compliance

| Contact         | Crimping machine | Applicator       |                |                            |
|-----------------|------------------|------------------|----------------|----------------------------|
|                 |                  | Crimp applicator | Dies           | Crimp applicator with dies |
| SACH-003G-P0.2  | AP-K2N           | MKS-L-10-3       | MK/SACH-003-02 | APLMK SACH003-02           |
|                 |                  | —                | —              | —                          |
| SACH-003G-P0.2B | AP-K2N           | MKS-L-10-3       | MK/SACH-003-02 | APLMK SACH003-02           |
|                 |                  | —                | —              | —                          |

## Housing



| Circuits | Model No.           | Dimensions (mm) |     | Q'ty/<br>bag |
|----------|---------------------|-----------------|-----|--------------|
|          |                     | A               | B   |              |
| 1        | <b>ACHR-01V-A-S</b> | —               | 1.6 | 2,000        |
| 2        | <b>ACHR-02V-S</b>   | 1.2             | 2.6 | 1,000        |
| 3        | <b>ACHR-03V-S</b>   | 2.4             | 3.8 | 1,000        |
| 4        | <b>ACHR-04V-A-S</b> | 3.6             | 5.0 | 1,000        |
| 5        | <b>ACHR-05V-A-S</b> | 4.8             | 6.2 | 1,000        |

### Material

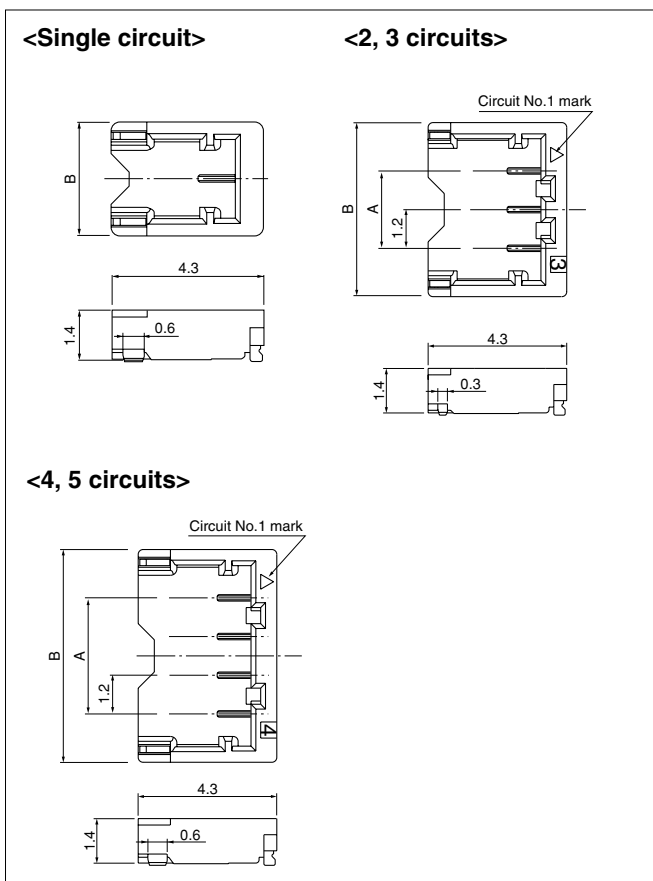
PBT, UL94V-0, natural (white)

### RoHS compliance

<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. **ACHR-02V-A-S**  
S...natural (white)  
K...black

## Shrouded header



| Circuits | Model No.                    | Dimensions (mm) |     | Q'ty/<br>reel |
|----------|------------------------------|-----------------|-----|---------------|
|          |                              | A               | B   |               |
| 1        | <b>BM01B-ACHSS-A-GAN-ETF</b> | —               | 3.2 | 4,500         |
| 2        | <b>BM02B-ACHSS-GAN-ETF</b>   | 1.2             | 4.2 | 4,500         |
| 3        | <b>BM03B-ACHSS-GAN-ETF</b>   | 2.4             | 5.4 | 4,500         |
| 4        | <b>BM04B-ACHSS-A-GAN-ETF</b> | 3.6             | 6.6 | 4,500         |
| 5        | <b>BM05B-ACHSS-A-GAN-ETF</b> | 4.8             | 7.8 | 4,500         |

### Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe)  
Housing: Heat resisting resin, UL94V-0, natural (ivory)  
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

### 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. **BM02B-ACHSS-GAN-ETF**  
S...natural (ivory)  
K...black