MEMORY CARD CONNECTORS
(PCMCIA CONFORMABLE)

560H SERIES

■ FEATURES

• The connectors conform to the Japan Electronic Industry Development Association (JEIDA) and Personal Computer Memory Card International Association (PCMCIA) standards Ver. 4.

• Contact pitch of 1.27 mm (0.050 in.) x 1.27 mm (0.050 in.). Incorrect insertion is prevented. Hot system plugging is possible (contact detection).

• Plugs have an easy-to-use ejection mechanism.

• Raised mounting type connectors (under which components can be mounted) and low-profile connectors are available.

• In addition to connectors for type I and type II cards, a connector for type III cards has been provided.

• The sockets are of the SMT type. A straddle-type socket for double-sided mounting and a socket for single-sided mounting are available.

■ SPECIFICATIONS

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating temperature range</td>
<td>– 55°C to + 85°C</td>
</tr>
<tr>
<td>Current rating</td>
<td>DC 0.5 A</td>
</tr>
<tr>
<td>Voltage rating</td>
<td>AC 250 V</td>
</tr>
<tr>
<td>Contact resistance</td>
<td>40 mΩ max (6 VDC, 0.1 A)</td>
</tr>
<tr>
<td>Insulation resistance</td>
<td>1000 MΩ min. (500 VDC)</td>
</tr>
<tr>
<td>Dielectric withstanding voltage</td>
<td>500 VAC for 1 minute</td>
</tr>
<tr>
<td>Insertion/withdrawal life</td>
<td>Industrial environment: 5,000 times</td>
</tr>
<tr>
<td></td>
<td>Office environment: 10,000 times</td>
</tr>
</tbody>
</table>

■ PIN CONNECTOR (PLUG) CONTACT LENGTH

<table>
<thead>
<tr>
<th>Contact type</th>
<th>Pin No.</th>
<th>Contact length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power, ground pins</td>
<td>1, 17, 34, 35, 51, 68</td>
<td>5.0 mm (0.196 in.)</td>
</tr>
<tr>
<td>Card detection pins</td>
<td>36, 67</td>
<td>3.5 mm (0.137 in.)</td>
</tr>
<tr>
<td>Other signal pins</td>
<td>Others</td>
<td>4.25 mm (0.167 in.)</td>
</tr>
</tbody>
</table>

■ MATERIALS

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insulating material</td>
<td>Plug body: PPS resin UL94V-0</td>
</tr>
<tr>
<td></td>
<td>: 6T nylon (for type III card connector) UL94V-0</td>
</tr>
<tr>
<td></td>
<td>Ejector: Polyester</td>
</tr>
<tr>
<td>Conductor</td>
<td>Copper alloy</td>
</tr>
<tr>
<td>Plating</td>
<td>Contact: Gold over palladium over nickel (PAGOS)</td>
</tr>
<tr>
<td></td>
<td>Terminal: Palladium</td>
</tr>
</tbody>
</table>
560H Series Connector Conforming to Ver. 4

**ORDERING PART NUMBER [PLUG]**

- **FCN-56 5 P 068-G / XC-V4**
  - V4: Conforms to Ver.4
  - E4: Conforms to Ver.4 and anti-ESD Specification
  - Plating G: Gold plating
  - Number of contacts: 68, 136
  - Body P: Plug
  - Pin type 4: Straight
  - 5: Right-angle
  - 8: SMT
  - 560 series connector
  - Fujitsu connector

**ORDERING PART NUMBER [SOCKET]**

- **FCN-56 8 J 068-G / 0**
  - Terminal type 0: PC board double-sided straddle type
  - B: PC board single-sided mounting type
  - Plating G: Gold plating
  - Number of contacts: 68
  - Body J: Socket
  - Pin type 8: SMT
  - 560 series connector
  - Fujitsu connector

Specifications subject to change
Dimensions are in millimeters (inches)
www.fcai.fujitsu.com
560H Series Connector Conforming to Ver. 4

RIGHT-ANGLE PLUG, THROUGH HOLE TYPE (WITH NO EJECTOR, STANDARD TYPE)
SUPPORTS TYPE I, II CARDS

■ DIMENSIONS AND PC BOARD MOUNTING HOLE LAYOUT (MOUNTING SIDE)

Part number: FCN-565P068-G/C-V4

- Models with a board lock (metal fitting for direct mounting) are also available. Part number: FCN-565P068-G/12-V4 (for 1.2 mm (0.047 in.) to 1.6 mm (0.063 in.) thick PC board)
- Long-terminal models are also available. Part number: FCN-565P068-G/13-V4 (4 mm (0.157 in.))
- Models which support Type III are also available. Part number: FCN-565P068-G/17-V4 (with board lock, for 1.2 mm (0.047 in.) to 1.6 mm (0.063 in.) thick PC board)

RIGHT-ANGLE PLUG, THROUGH HOLE TYPE (WITH NO EJECTOR, LOW-PROFILE TYPE)
SUPPORTS TYPE I, II CARDS

■ DIMENSIONS AND PC BOARD MOUNTING HOLE LAYOUT (MOUNTING SIDE)

Part number: FCN-565P068-G/01-V4

Use M2.5 (0.098 in) nut and screws. Screw torque is 3.2 kg/cm.
In order to avoid damage to the connector, do not pull out the card at an angle.

Specifications subject to change
Dimensions are in millimeters (inches)
www.fcai.fujitsu.com
RIGHT-ANGLE PLUG, THROUGHHOLE TYPE (WITH NO EJECTOR, TO BE MOUNTED ON THE BACK OF THE PC BOARD) SUPPORTS TYPE I, II CARDS

**DIMENSIONS AND PC BOARD MOUNTING HOLE LAYOUT (MOUNTING SIDE)**

Part number: FCN-565P068-G/F-V4

![Diagram of connector](image)

- A model with no nuts buried is available. Part number: FCN-565P068-G/H-V4

RIGHT-ANGLE PLUG, THROUGHHOLE TYPE (WITH NO EJECTOR, RAISED MOUNTING TYPE) SUPPORTS TYPE I, II CARDS

**DIMENSIONS AND PC BOARD MOUNTING HOLE LAYOUT (MOUNTING SIDE)**

Part number: FCN-565P068-G/J-V4 (SUPPORTS TYPE I, II CARD)
Part number: FCN-565P068-G/J-4V (SUPPORTS TYPE I, II, III CARD)

![Diagram of connector](image)

- Applicable screw: Self-tapping screw M2.5 (0.098 in.) x 5 mm (0.197 in.) (for 1.6 mm (0.063 in.) thick PC board)

- A model mounted on bottom of a PC board is also available. Part number: FCN-565P068-G16-V4 (supports type I, II)

Specifications subject to change  Dimensions are in millimeters (inches)  www.fcai.fujitsu.com
RIGHT-ANGLE PLUG, THROUGHHOLE TYPE (WITH NO EJECTOR, SUNK MOUNTING TYPE) SUPPORTS TYPE I, II CARDS

■ DIMENSIONS AND PC BOARD MOUNTING HOLE LAYOUT (MOUNTING SIDE)

Part number: FCN-565P068-G/A-V4

Unit: mm (in.)

RIGHT-ANGLE PLUG, THROUGHHOLE TYPE (WITH NO EJECTOR, TWO LAYER STACK TYPE)

■ DIMENSIONS AND PC BOARD MOUNTING HOLE LAYOUT (MOUNTING SIDE)

Part number: FCN-565P136-G/0-V4

Unit: mm (in.)
RIGHT-ANGLE PLUG, THROUGHHOLE TYPE (WITH NO EJECTOR, WITH GUIDE)
SUPPORTS TYPE I, II CARDS

**DIMENSIONS**

Part number: FCN-565P068-G/C34-V4

*A 60.48 mm (2.381 in.) model is also available. FCN-565P068-G/C32-V4

**PC BOARD MOUNTING HOLE LAYOUT (MOUNTING SIDE)**
RIGHT-ANGLE PLUG, THROUGHHOLE TYPE (WITH RIGHT-BUTTON EJECTOR)
SUPPORTS TYPE I, II CARDS

**DIMENSIONS**

Part number: FCN-565P068-G/XC-V4  (Type I, II Card, Button color: Black)
Part number: FCN-565P068-G/XC-4V  (Type I, II, III Card, Button color: Black)
Part number: FCN-565P068-G/PC-V4  (Type I, II Card, Button color: Beige)


**PC BOARD MOUNTING HOLE LAYOUT (MOUNTING SIDE)**
560H Series Connector Conforming to Ver. 4

RIGHT-ANGLE PLUG, THROUGHHOLE TYPE (WITH LEFT-BUTTON EJECTOR)
SUPPORTS TYPE I, II CARDS

■ DIMENSIONS

Part number: FCN-565P068-G/MC-V4 (Button color: Black)
Part number: FCN-565P068-G/C22-V4 (Button color: Beige)

Unit: mm (in.)


■ PC BOARD MOUNTING HOLE LAYOUT (MOUNTING SIDE)

Unit: mm (in.)
RIGHT-ANGLE PLUG, THROUGHHOLE TYPE (WITH RIGHT-BUTTON EJECTOR, TO BE MOUNTED ON THE BACK OF THE PC BOARD) SUPPORTS TYPE I, II CARDS

■ DIMENSIONS

Part number: FCN-565P068-G/XF-V4 (Button color: Black)
Part number: FCN-565P068-G/PF-V4 (Button color: Beige)

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Unit (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>38.3 (1.51)</td>
</tr>
<tr>
<td>Height</td>
<td>31.7 (1.25)</td>
</tr>
<tr>
<td>Depth</td>
<td>12.2 (0.48)</td>
</tr>
</tbody>
</table>

■ PC BOARD MOUNTING HOLE LAYOUT (MOUNTING SIDE)

■ MOUNTING EXAMPLE

Regardless of how the connector is mounted on the PC board, a card can be inserted with its face upward.
560H Series Connector Conforming to Ver. 4

RIGHT-ANGLE PLUG, THROUGHHOLE TYPE (WITH LEFT-BUTTON EJECTOR, SUNK MOUNTING TYPE) SUPPORTS TYPE I, II CARDS

■ DIMENSIONS

Part number: FCN-565P068-G/W-V4

[Diagram showing dimensions and tolerances]

■ PC BOARD MOUNTING HOLE LAYOUT (MOUNTING SIDE)

[Diagram showing mounting hole layout]

■ MOUNTING EXAMPLE

[Diagram showing mounting example]

The connector is mounted on a PC board so that only its terminal connection part rests on the board.
560H Series Connector Conforming to Ver. 4

RIGHT-ANGLE PLUG, THROUGHHOLE TYPE (WITH RIGHT-BUTTON EJECTOR, 4.5 MM (0.177 IN.) RAISED TYPE) SUPPORTS TYPE I, II CARDS

**DIMENSIONS**

Part number: FCN-565P068-G/J25-V4 (supports type I, II card)
Part number: FCN-565P068-G/J25-4V (supports type I, II, III card)

**PC BOARD MOUNTING HOLE LAYOUT (MOUNTING SIDE)**

Component mounting is prohibited in the hatched areas.

**MOUNTING EXAMPLE**

- Components with a height of 4.3 mm (0.169 in.) maximum can be installed under the connector.
- Use M2.5 mm (0.098 in.) x 5 mm (0.197 in.) self-tapping screws (when a 1.6 mm (0.063 in.) thick PC board is used) to mount the connector to the board.

Specifications subject to change
Dimensions are in millimeters (inches)
www.fcai.fujitsu.com
560H Series Connector Conforming to Ver. 4

RIGHT-ANGLE PLUG, THROUGHHOLE TYPE (WITH RIGHT-BUTTON EJECTOR, 5 mm (0.197 in.) RAISED TYPE, WITH OR WITHOUT FG CLIP) SUPPORTS TYPE I, II CARDS

■ DIMENSIONS

Part number: FCN-565P068-G/0442-E4 (with FG clip)

Part number: FCN-565P068-G/0426-V4 (with no FG clip)

■ PC BOARD MOUNTING HOLE LAYOUT (MOUNTING SIDE)

- Use M3 mm (0.118 in.) x 5.5 mm (0.217 in.) thread self-tapping screws (when a 1.6 mm (0.063 in.) thick PC board is used) to mount the connector to the board.

Specifications subject to change
Dimensions are in millimeters (inches)
www.fcai.fujitsu.com

Unit: mm (in.)
560H Series Connector Conforming to Ver. 4

RIGHT-ANGLE PLUG, THROUGHHOLE TYPE (WITH LEFT-BUTTON EJECTOR, 4.5 mm (0.177 in.) RAISED TYPE, WITH FG CLIP FOR ESD PROTECTION) SUPPORTS TYPE I, II CARDS

### DIMENSIONS

Part number: FCN-565P068-G/J3-E4

Models with a right-button ejector, and with or without an ESD/FG clip are also available. Contact Fujitsu.

### PC BOARD MOUNTING HOLE LAYOUT (MOUNTING SIDE)

Specifications subject to change
Dimensions are in millimeters (inches)  www.fcai.fujitsu.com
560H Series Connector Conforming to Ver. 4

RIGHT-ANGLE PLUG, THROUGHHOLE TYPE (WITH LEFT EJECTOR BUTTON, 5 mm (0.197 in.) RAISED TYPE, WITH ESD CLIPS

■ DIMENSIONS

Part number: FCN-565P068-G/0221-E4

Unit: mm (in.)

■ PC BOARD MOUNTING HOLE LAYOUT (MOUNTING SIDE)
RIGHT-ANGLE PLUG, THROUGHHOLE TYPE (WITH RIGHT EJECT BUTTON, 5 mm (0.197 in.) RAISED TYPE, WITH ESD CLIPS

**DIMENSIONS**

Part number: FCN-565P068-G/0231-E4

**PC BOARD MOUNTING HOLE LAYOUT (MOUNTING SIDE)**

Specifications subject to change  Dimensions are in millimeters (inches)  www.fcai.fujitsu.com
RIGHT-ANGLE PLUG, THROUGHHOLE TYPE (WITH RIGHT EJECT BUTTON, TWO LAYER EJECT TYPE)

### Dimensions

Part Number: FCN-565P136-G/Z-V4

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
<th>Unit</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.1</td>
<td>No.35</td>
<td>mm</td>
<td></td>
</tr>
<tr>
<td>No.34</td>
<td>No.68</td>
<td>mm</td>
<td></td>
</tr>
</tbody>
</table>

### PC Board Mounting Hole Layout (Mounting Side)

Part Number: FCN-565P136-G/005-V4

- Dimensions are in millimeters (inches).
- Specifications subject to change.
- www.fcai.fujitsu.com
FCN-560A*** EJECTORS FOR FCN-564/565 HEADERS

■ DIMENSIONS

Right Button | Button Color | ESD
--- | --- | ---
FCN-560A08 | BLACK | |
FCN-560A14 | BEIGE | |

Left Button | Button Color | ESD
--- | --- | ---
FCN-560A16 | BLACK | |
FCN-560A22 | BEIGE | |

Specifications subject to change
Dimensions are in millimeters (inches)
www.fcai.fujitsu.com
560H Series Connector Conforming to Ver. 4

STRAIGHT PLUG, THROUGHHOLE TYPE LOW PROFILE

**DIMENSIONS**

Part number: FCN-564P068-G/A-V4

**PC BOARD MOUNTING HOLE LAYOUT (MOUNTING SIDE)**

Unit: mm (in.)
560H Series Connector Conforming to Ver. 4

STRAIGHT PLUG, THROUGHHOLE TYPE (WITH NO EJECTOR)

■ DIMENSIONS

Part number: FCN-564P068-G/0-V4

- A model with the feature of preventing mismated board mounting is available. Contact Fujitsu.

■ PC BOARD MOUNTING HOLE LAYOUT (MOUNTING SIDE)

Specifications subject to change
Dimensions are in millimeters (inches) www.fcai.fujitsu.com

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STRAIGHT PLUG, THROUGHHOLE TYPE (WITH EJECTOR)

**DIMENSIONS**

Part number: FCN-564P068-G/X0-V4

**PC BOARD MOUNTING HOLE LAYOUT (MOUNTING SIDE)**