

# Compact 0.50PCB Connector

Mass-Produced Product

Extensive product selections for the needs of downsizing and weight reduction in the automotive device market

## Background or Challenges

Increasing demand for smaller and lighter PCB connectors for automotive environments

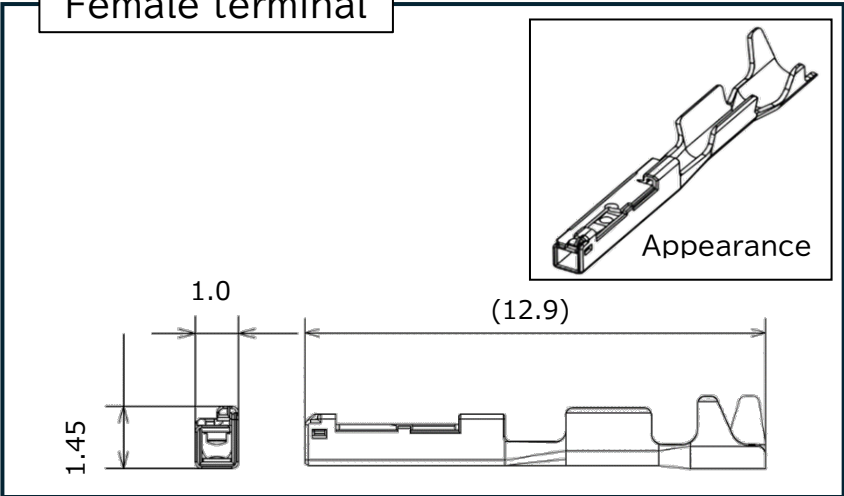
## Solutions to Challenges or Features

- 1 Narrower pitch and smaller size by using in-vehicle 0.5 terminals (47% reduction in volume compared to 0.64PCB connector)
- 2 Wide product portfolio from 4P to 24P (original interface and terminal adopted)

## Specifications

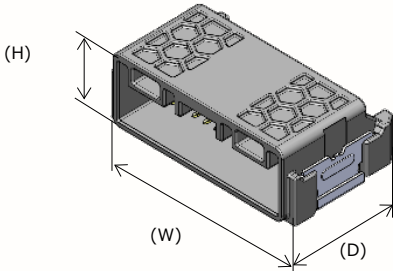
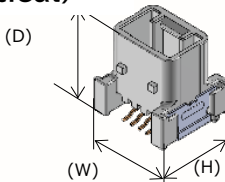
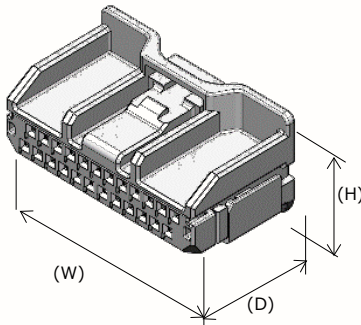
|                                  |   |
|----------------------------------|---|
| Terminal size [mm]               | 0.5   |
| Pitch [mm] (H x V)               | 2.0 x 2.4   |
| Wire diameter [mm <sup>2</sup> ] | JASO wire: max 0.3<br>ISO wire: max 0.35<br>Please contact us when using heat resistant wire or 0.5mm <sup>2</sup> wire |
| Rated current [A]                | 3.0<br>(Single-pole energized, wire 0.3mm <sup>2</sup> or more)   |
| Terminal material/plating        | Copper alloy/Tin plating  |

Female terminal



## Appearance

Surface mounting: SMT

|  | Number of poles | W    | H    | D    |
|--|-----------------|------|------|------|
| Male (Horizontal)<br>                   | 4               | 17.6 | 10   | 20   |
|  | 8               | 17.6 | 11.4 |      |
|  | 12              | 21.6 |      |      |
|  | 16              | 25.6 |      |      |
|  | 20              | 29.6 |      |      |
|  | 24              | 33.6 |      |      |
| Male (Vertical)<br>                     | 4               | 17.6 | 20.2 | 17.4 |
|  | 6               | 21.6 |      |      |
|  | 12              | 21.6 |      |      |
|  | 16              | 25.6 |      |      |
| Male (Both Horizontal and Vertical)<br> | 4               | 12.8 | 12.2 | 15.8 |
|  | 6               | 16.8 | 13.2 |      |
|  | 8               | 12.8 |      |      |
|  | 12              | 16.8 |      |      |
|  | 16              | 20.8 |      |      |
|  | 20              | 24.8 |      |      |
|  | 24              | 28.8 |      |      |