HQB connector

## Features

- Flexible connection by absorbing circuit board misalignment
The hinge compensates for slight misalignments between circuit boards to assure a secure connection even if the boards are out of line up to 0.5 mm . This design and circuit checks can be as easily made as opening a door.
- Hinged connection

With hinge construction, the HQB connector features flexibility. Thus this board to board connector allows mated PCB's to move $90^{\circ}$ in respect to one another while electricity is turned on.

Hinge type board to board connectors which allow mated PCB's to move $90^{\circ}$ in respect to one another while electricity is turned on. The hinge compensates for slight misalignments between circuit boards to assure a secure connection even if the boards are laterally out of line up to 0.5 mm . Header leads are staggered for easy board design.


## Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 50 V AC, DC
- Temperature range: $-25^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/30m $\Omega$ max.

After environmental testing/60m $\Omega$ max.

- Insulation resistance: $1,000 \mathrm{M} \Omega \mathrm{min}$.
- Withstanding voltage: 1,000V AC/minute
- Applicable PC board thickness: 1.6 mm
* 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

NㅔRecognized E60389
(61). Certified LR20812

## HQB CONNECTOR

## Plug



| Circuits | Model No. | Dimensions (mm) |  |  | Q'ty / box |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C |  |
| 22 | 22P-HQBSS | 31.5 | 40.1 | 34.9 | 50 |
| 24 | 24P-HQBSS | 34.5 | 43.1 | 37.9 | 45 |
| 30 | 30P-HQBSS | 43.5 | 52.1 | 46.9 | 40 |
| 36 | 36P-HQBSS | 52.5 | 61.1 | 55.9 | 35 |
| Material and Finish |  |  |  |  |  |

Contact: Copper alloy, tin-plated(reflow treatment)
Housing: PA 66, UL94V-0, white (natural)

## RoHS compliance

## Receptacle



| Circuits | Model No. | Dimensions (mm) |  |  | Q'ty / <br> box |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C |  |
| 22 | 22R-HQBSS | 31.5 | 37.1 | 35.5 | 50 |
| 24 | 24R-HQBSS | 34.5 | 40.1 | 38.5 | 45 |
| 30 | 30R-HQBSS | 43.5 | 49.1 | 47.5 | 40 |
| 36 | 36R-HQBSS | 52.5 | 58.1 | 56.5 | 35 |
| Material and Finish |  |  |  |  |  |

Contact: Phosphor bronze, tin-plated(reflow treatment) Housing: PA 66, UL94V-0, white (natural)

## RoHS compliance

## HQB CONNECTOR

## PC board layout (viewed from component side)

## Plug



Receptacle


| Circuits | Dimensions (mm) |  |  |
| :---: | :---: | :---: | :---: |
|  | A | B | C |
| 22 | 31.5 | 7.5 | 16.5 |
| 24 | 34.5 | 7.5 | 19.5 |
| 30 | 43.5 | 10.5 | 22.5 |
| 36 | 52.5 | 12.0 | 28.5 |

## Note:

1. Tolerances are non-cumulative: $\pm 0.05 \mathrm{~mm}$ for all centers.
2. 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.

## Assembly layout



