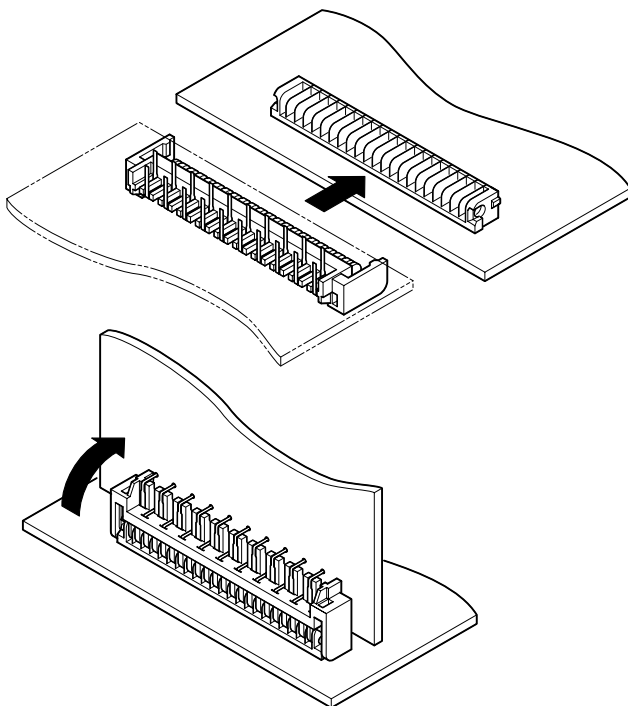


HQS CONNECTOR

Hinge type Board-to-board Connectors



Thanks to the hinged connection of the connector, the boards can be rotated 90° so that they can be moved from parallel to vertical positions even when electricity is turned on. Thus circuit checks and adjustment of the equipment is possible even in tight spaces. Header leads are staggered for vibration resistance and for easy board design.



Features

- **Low profile, matable even after mounting on the PC boards**

Compact and low profile with 2.0mm (.078") pitch and 6.0mm (.236") height after mounting on the PC board. Connector halves can be mated even after they are mounted on PC boards and the PC boards are installed in the equipment. Thus connection between boards is easy.

- **Highly reliable connection**

Due to the secure locking mechanism and fork-shaped contact mating sections, highly reliable connection is assured even under severe conditions such as vibration or shock.

Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 100V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/20mΩ max.
After environmental testing/40mΩ max.
- Insulation resistance: 1,000MΩ min.
- Withstanding voltage: 800V AC/minute
- Applicable PC board thickness: 1.6mm(.063")

* Contact JST for details.

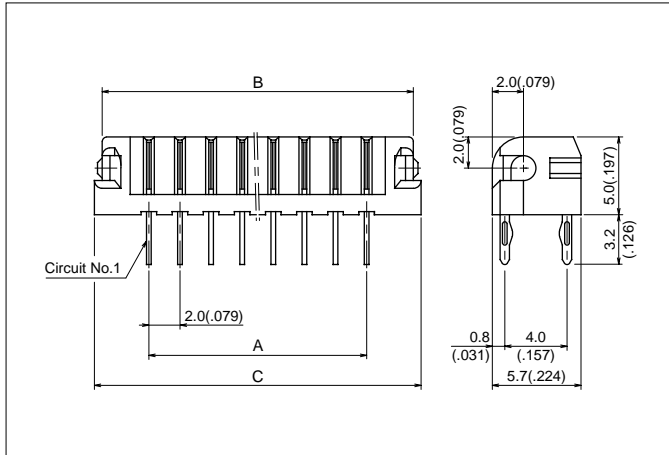
Standards

Recognized file No. E60389

Certified file No. LR20812

HQS CONNECTOR

Plug

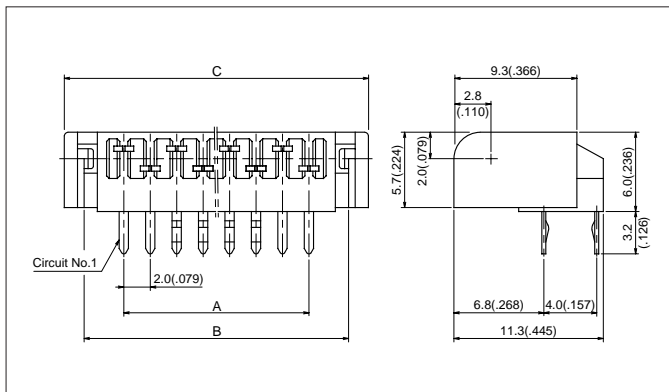


Circuits	Model No.	Dimensions mm(in.)			Q'ty / tray
		A	B	C	
12	12P-HQS-1(T)	22.0(.866)	28.0(1.102)	29.0(1.142)	280
20	20P-HQS-1(T)	38.0(1.496)	44.0(1.732)	45.0(1.772)	160
30	30P-HQS-1(T)	58.0(2.283)	64.0(2.520)	65.0(2.559)	120

Material and Finish

Contact: Phosphor bronze, tin-plated
Housing: Glass-filled PBT, UL94V-0

Receptacle

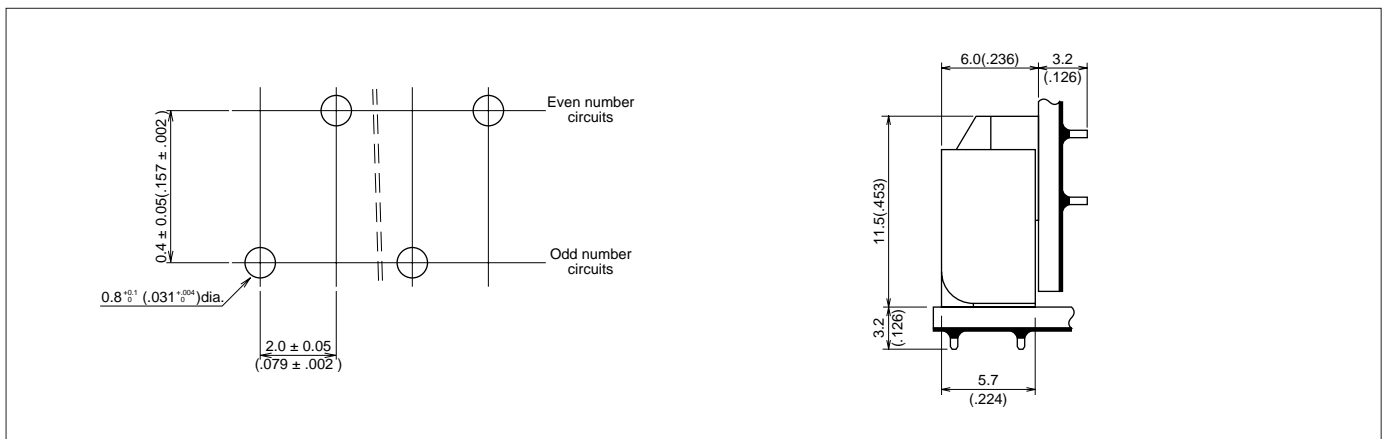


Circuits	Model No.	Dimensions mm(in.)			Q'ty / tray
		A	B	C	
12	12R-HQS-1(T)	22.0(.866)	28.0(1.102)	31.0(1.220)	240
20	20R-HQS-1(T)	38.0(1.496)	44.0(1.732)	47.0(1.850)	160
30	30R-HQS-1(T)	58.0(2.283)	64.0(2.520)	67.0(2.638)	120

Material and Finish

Contact: Phosphor bronze, tin-plated
Housing: Glass-filled PBT, UL94V-0

PC board layout (Viewed from component side) and Assembly layout



- Note:
- 1) Tolerances are non-cumulative: $\pm 0.05\text{mm}$ (± 0.002 " 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.