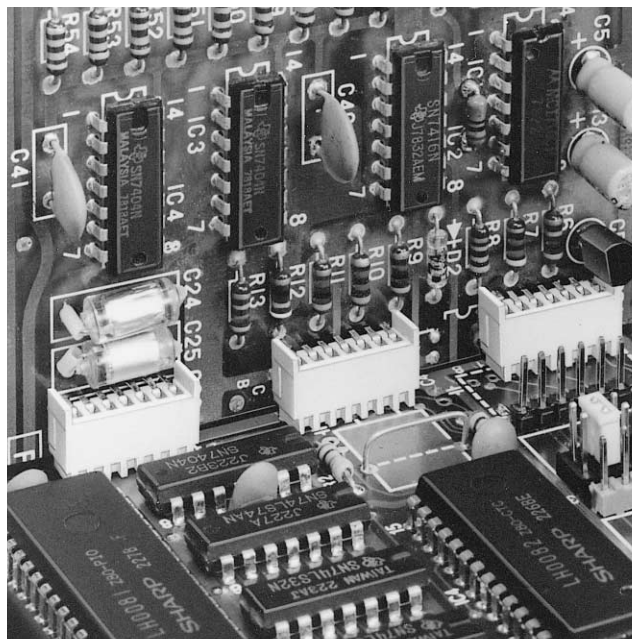
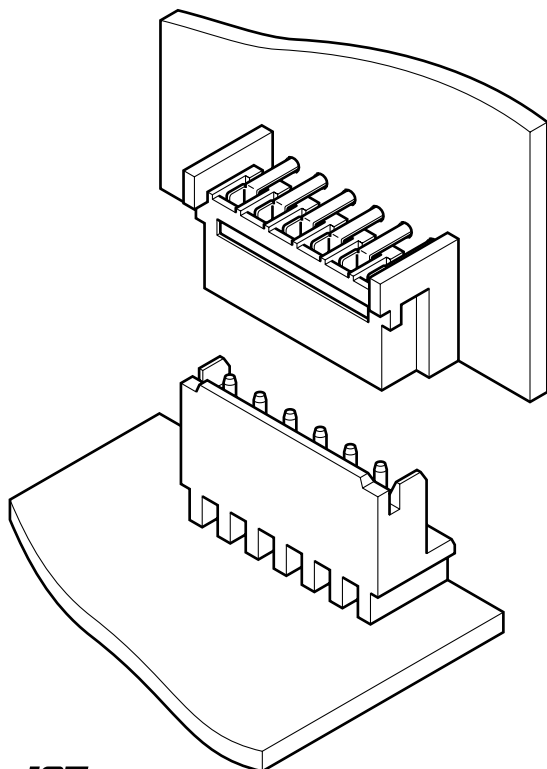


MQ CONNECTOR

Board-to-board connectors



Measuring 2.0mm (.079") in pitch, 9.2mm (.362") in mounting height and 5.5mm (.217") in thickness, this board-to-board connector makes high-density mounting of components in electronic products possible. It is ideal for small electronic products, such as portable VCRs and video cameras, which require high-density mounting and high reliability.



Features

• Back-up support spring construction

Each socket contact in this protected entry connector consists of two independently functioning and redundant contact spring members. In turn, each of these spring is based up with an additional spring and "overstress stop". This combination of features makes it almost impossible to damage this connector by repeated mating or by mismating.

• Easy insertion

The shrouded header has three side walls to ease insertion of the receptacle. When the receptacle is inserted into the header, it first mates with the housing guide after which the header pins are guided into the receptacle via lead-in chamfers in the housing. In addition, the housings have guide ribs and slots to prevent improper contact caused by prying or mishandling.

• Board retention feature

The pins of these connectors have a board retention feature that prevents them from floating during soldering. This ensures accurate positioning of the connectors on the finished product.

Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable PC board thickness: 1.2 to 1.6mm(.047" to .063")
- * Contact JST if Lead-Free product is required.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

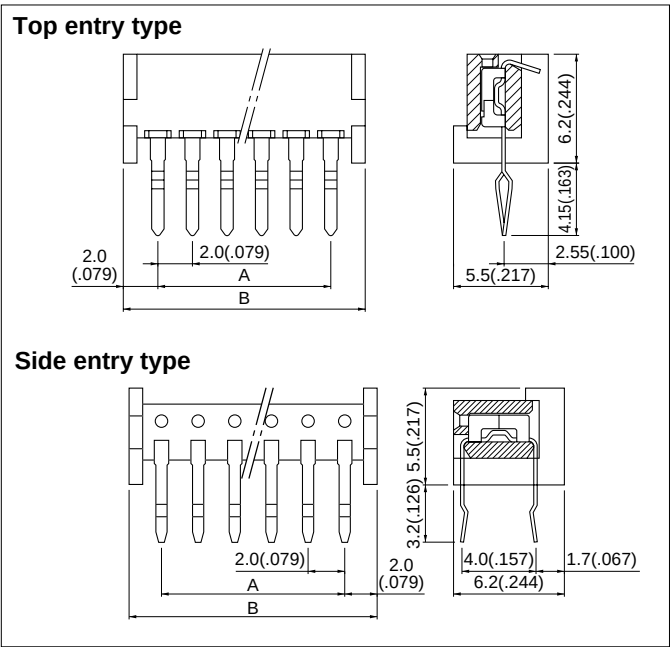
Standards

Ⓡ Recognized E60389

Ⓢ Certified LR20812

Ⓡ R9351042

Receptacle

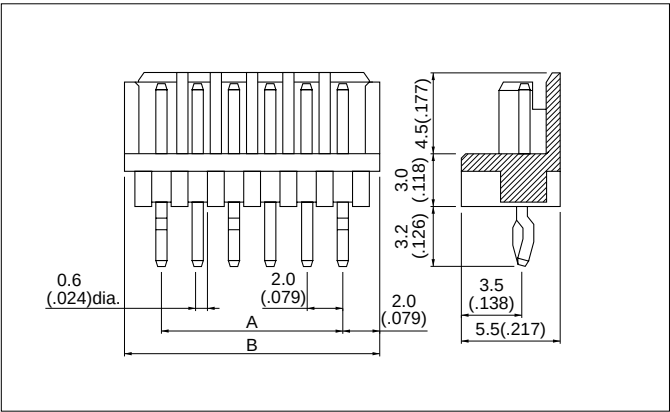


Cir- cuits	Model No.		Dimensions mm(in.)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
5	05MQ-BT	05MQ-ST	8.0(.315)	12.0(.472)	500	500
6	06MQ-BT	06MQ-ST	10.0(.394)	14.0(.551)	500	500
7	07MQ-BT	07MQ-ST	12.0(.472)	16.0(.630)	500	500
8	08MQ-BT	08MQ-ST	14.0(.551)	18.0(.709)	500	250
9	09MQ-BT	09MQ-ST	16.0(.630)	20.0(.787)	500	250
10	10MQ-BT	10MQ-ST	18.0(.709)	22.0(.866)	250	250
12	12MQ-BT	12MQ-ST	22.0(.866)	26.0(1.024)	250	250

Material and Finish

Contact: Phosphor bronze, tin-plated
Housing: Nylon 66, UL94V-0, natural

Shrouded header

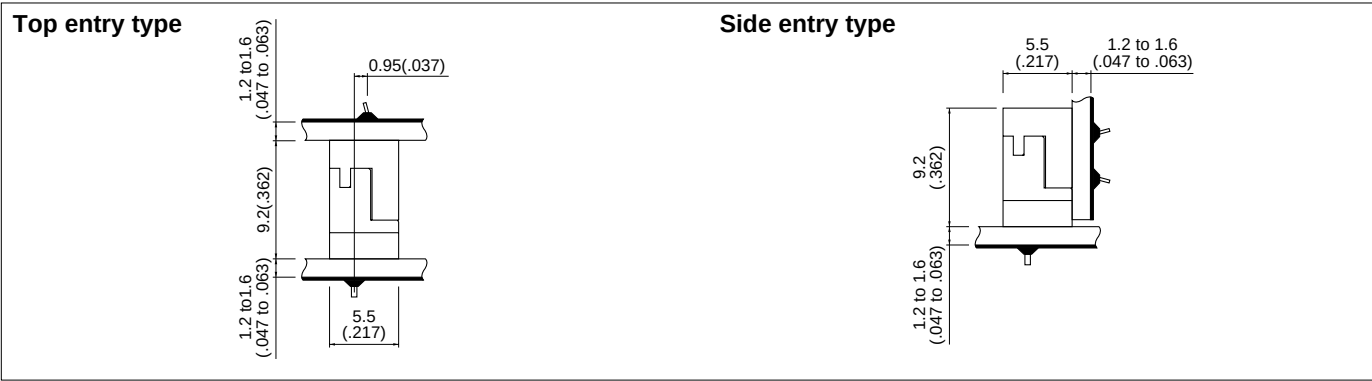


Cir- cuits	Model No.	Dimensions mm(in.)		Q'ty / box
		A	B	
5	B 5P-MQ	8.0(.315)	12.0(.472)	500
6	B 6P-MQ	10.0(.394)	14.0(.551)	500
7	B 7P-MQ	12.0(.472)	16.0(.630)	500
8	B 8P-MQ	14.0(.551)	18.0(.709)	500
9	B 9P-MQ	16.0(.630)	20.0(.787)	500
10	B10P-MQ	18.0(.709)	22.0(.866)	250
12	B12P-MQ	22.0(.866)	26.0(1.024)	200

Material and Finish

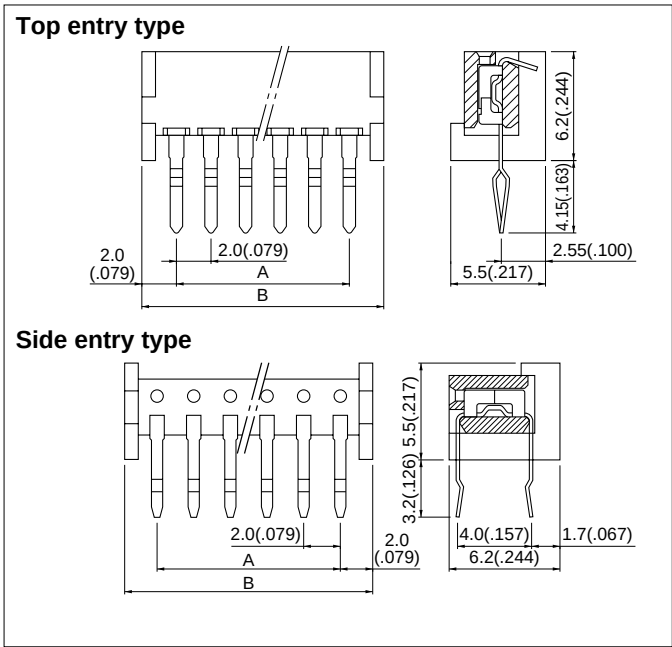
Pin: Brass, copper-undercoated, tin/lead-plated
Wafer: Nylon 66, UL94V-0, natural

Assembly layout



MQ CONNECTOR

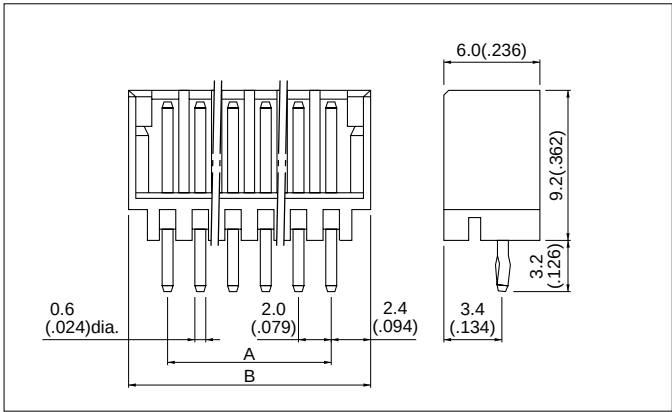
Low insertion force type Receptacle



Cir- cuits	Model No.		Dimensions mm(in.)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
4	04MQ-BT-L	04MQ-ST-L	6.0(.236)	10.0(.394)	500	500
5	05MQ-BT-L	05MQ-ST-L	8.0(.315)	12.0(.472)	500	500
6	06MQ-BT-L	06MQ-ST-L	10.0(.394)	14.0(.551)	500	500
7	07MQ-BT-L	07MQ-ST-L	12.0(.472)	16.0(.630)	500	500
8	08MQ-BT-L	08MQ-ST-L	14.0(.551)	18.0(.709)	500	250
9	09MQ-BT-L	09MQ-ST-L	16.0(.630)	20.0(.787)	500	250
10	10MQ-BT-L	10MQ-ST-L	18.0(.709)	22.0(.866)	250	250
12	12MQ-BT-L	12MQ-ST-L	22.0(.866)	26.0(1.024)	250	250

Material and Finish	
Contact: Phosphor bronze, tin-plated	
Housing: Nylon 66, UL94V-0, natural	

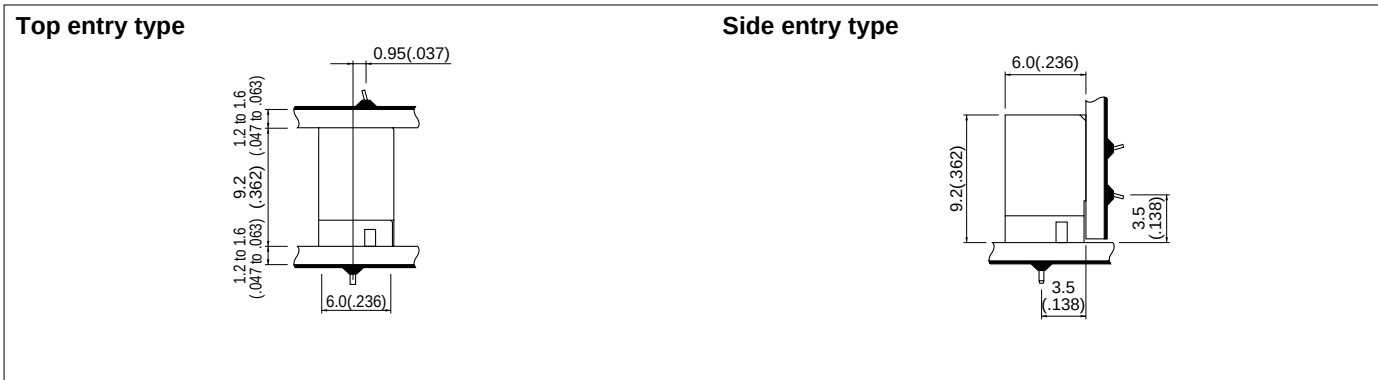
Low insertion force type Shrouded header



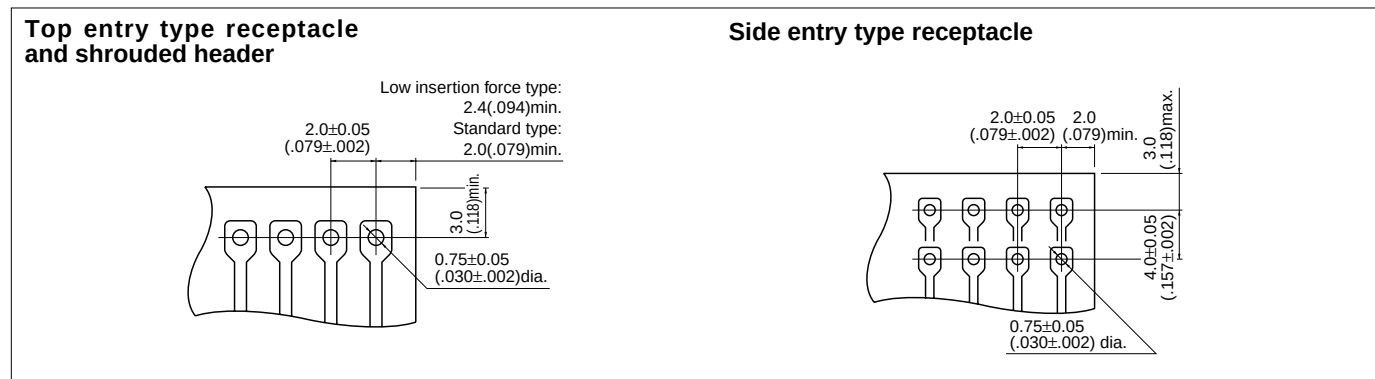
Cir- cuits	Model No.	Dimensions mm(in.)		Q'ty / box
		A	B	
4	B 4P-MQ-C	6.0(.236)	10.8(.425)	500
5	B 5P-MQ-C	8.0(.315)	12.8(.504)	500
6	B 6P-MQ-C	10.0(.394)	14.8(.583)	500
7	B 7P-MQ-C	12.0(.472)	16.8(.661)	250
8	B 8P-MQ-C	14.0(.551)	18.8(.740)	250
9	B 9P-MQ-C	16.0(.630)	20.8(.819)	250
10	B10P-MQ-C	18.0(.709)	22.8(.898)	250
12	B12P-MQ-C	22.0(.866)	26.8(1.055)	200

Material and Finish	
Pin: Brass, copper-undercoated, tin/lead-plated	
Wafer: Nylon 66, UL94V-0	

Low insertion force type Assembly layout



PC board layout (viewed from soldering side)



Note:

1. The PC board layout of the header is identical to that of the top entry receptacle.
2. Tolerances are non-cumulative: $\pm 0.05\text{mm}(\pm .002")$ for all centers.
3. 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.