

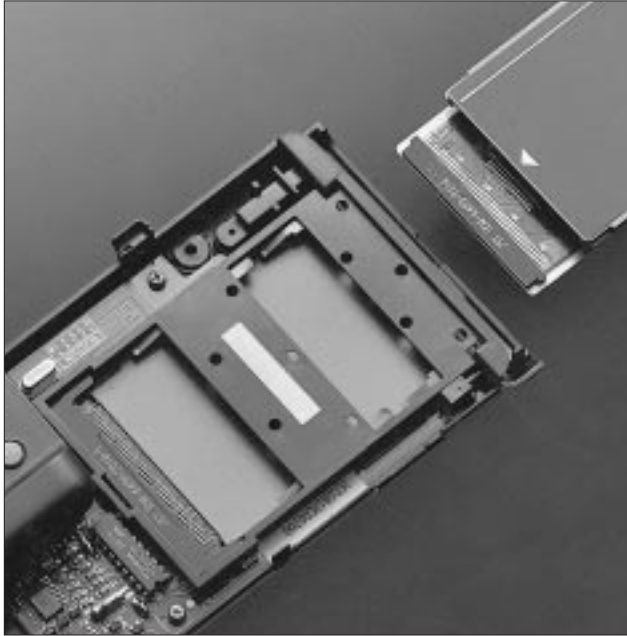
JST

Memory Card

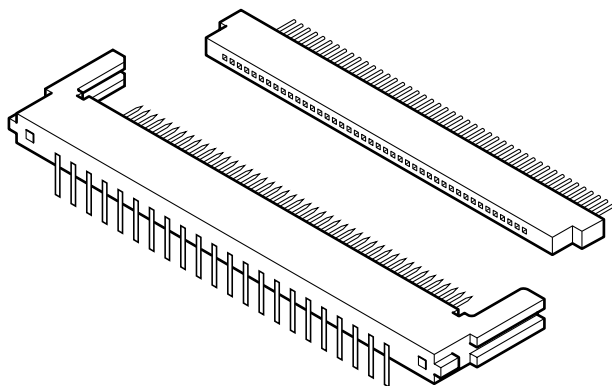
1.0mm
(.039") pitch

MEMORY CARD CONNECTOR A TYPE

45-circuit PC card connector



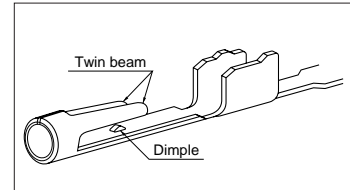
Because of their greater information content, PC cards are used instead of conventional magnetic cards in a wide variety of modern electronic equipment. The growing electronics industry, however, needs even thinner memory cards. To meet this need, JST has developed the innovative connector which has 45 single in-line circuits on 1.0mm (0.39") pitch and a dependable, two-piece construction. Its socket is merely 1.7mm (.067") thick, making it possible to design a memory card as thin as 2.0mm (.079"). The ICM connector requires only 2.0kgf (4.4 lbs) of insertion force, withstands up to 10,000 mating cycles, and is thus ideal for all memory card applications.



Features

- **Low insertion/withdrawal force, secure contact mating and superior durability**

The socket contact has three contact points; a dimple and twin beams of different lengths. Although the ICM connector has 45 circuits, it can be mated



with just 2.0kgf (4.4 lbs) of force. The ICM connector is highly resistant to prying forces when being mated or unmated and is guaranteed for 10,000 mating cycles.

- **Fully protected against static electricity and built to prevent misinsertion**

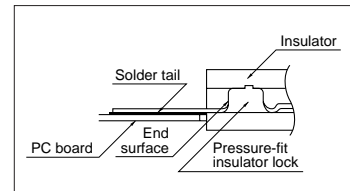
The power supply pins are longer than the signal pins on the header. This ensures that they mate first and thus protect the IC chips from static electricity. In addition, the right and left card guide grooves of the header housing are shaped differently and therefore prevent misinsertion of the PC card.

- **Uses less gold for lower cost**

Both the socket and header contacts are selectively gold-plated on mating areas only.

- **Solder cannot enter contact mating areas**


The end surface (see figure in the right) of the pressure-fit insulator lock on the socket contact is set well inside the insulator. This prevents solder from entering the mating area when surface-mounting the socket.



Specifications

- Current rating: 0.5A AC, DC/line
- Temperature range: -40°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/35mΩ max.
After environmental testing/50mΩ max.
- Withstanding voltage: 250V AC/minute
- Insulation resistance: 100MΩ min. (100V DC)
- Mating/unmating life: 10,000 cycles
- * Contact JST for details.

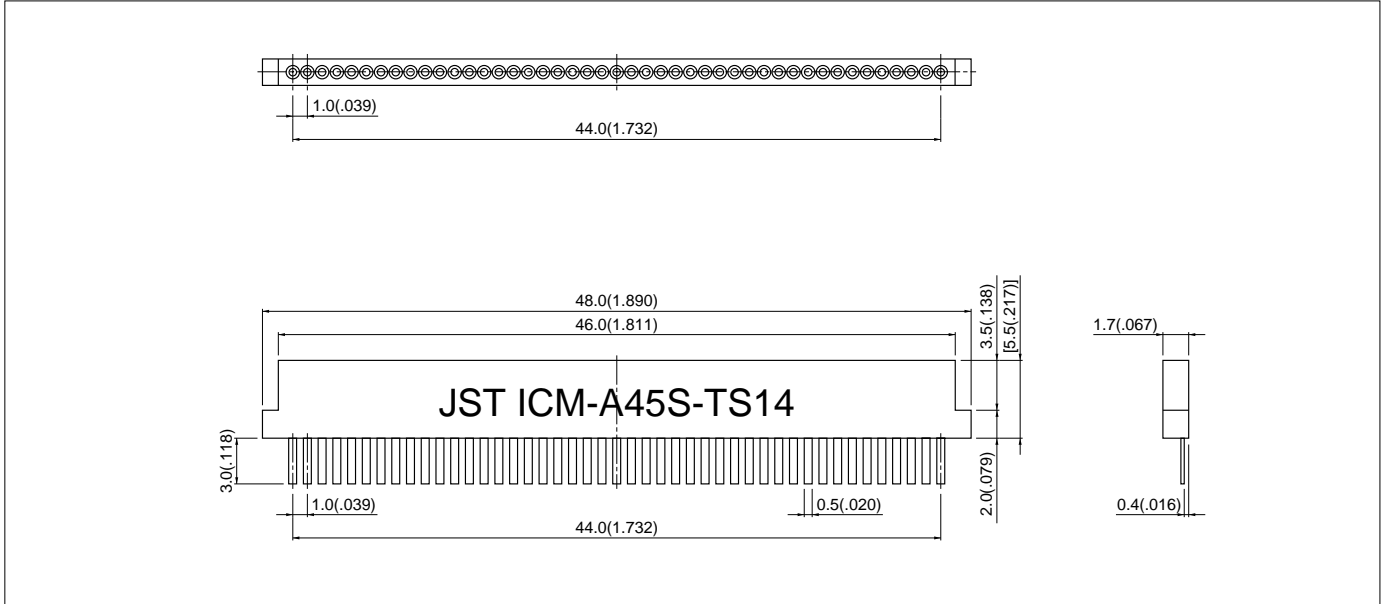
Standards

 Recognized file No. E60389

 Certified file No. LR20812

MEMORY CARD CONNECTOR TYPE

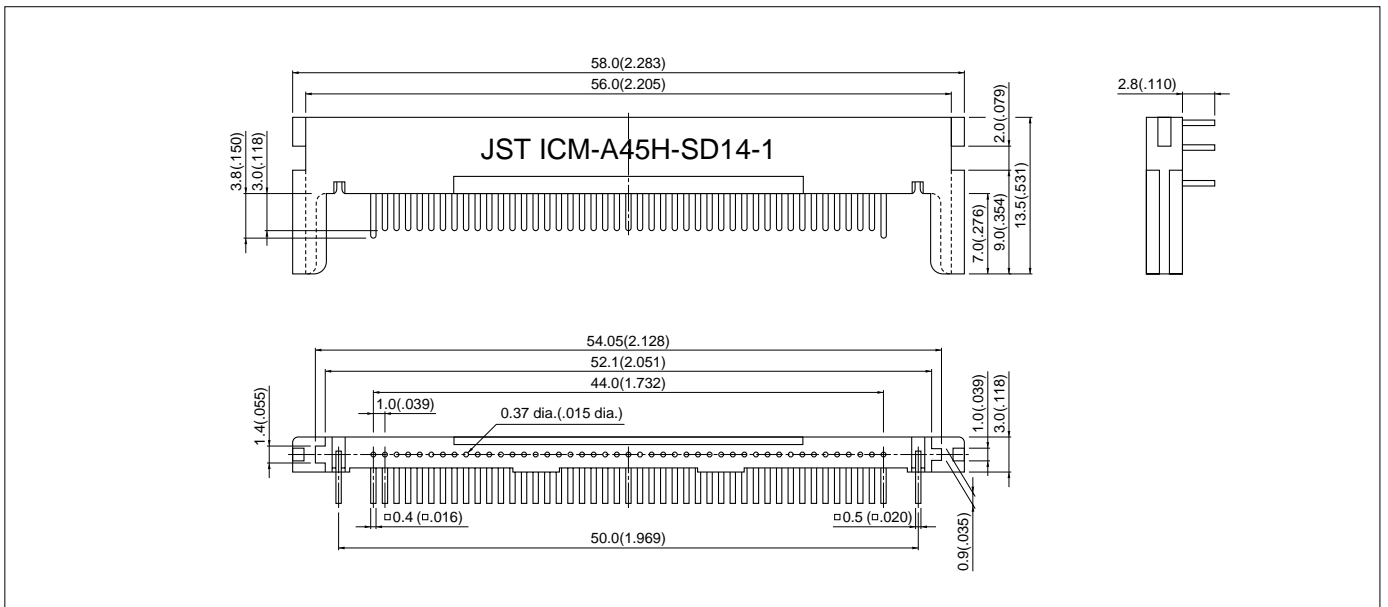
Socket



Circuits	Model No.	Q'ty / box
45	ICM-A45S-TS14	400

Material and Finish
Contact: Copper-alloy, nickel-undercoated Mating section...Gold-plated Solder tail...Tin/lead-plated Housing: Glass-filled nylon 66, UL94V-0, black

Header/Through-hole type

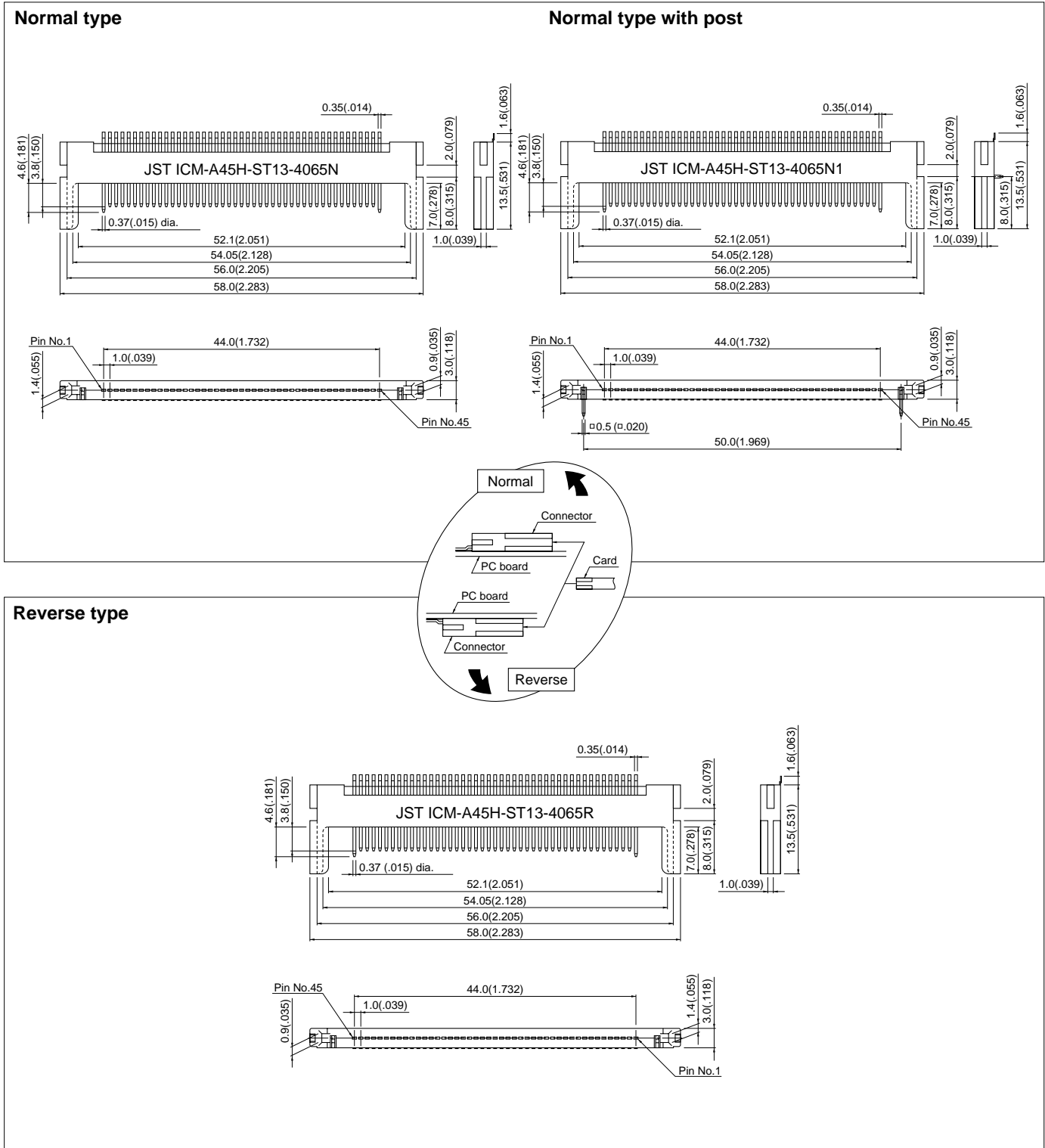


Circuits	Model No.	Q'ty / box
45	ICM-A45H-SD14-1	100

Material and Finish
Contact: Phosphor bronze, nickel-undercoated Mating section...Gold-plated Solder tail...Tin/lead-plated Housing: Glass-filled nylon 66, UL94V-0, black Post: Brass, tin-plated

MEMORY CARD CONNECTOR A TYPE

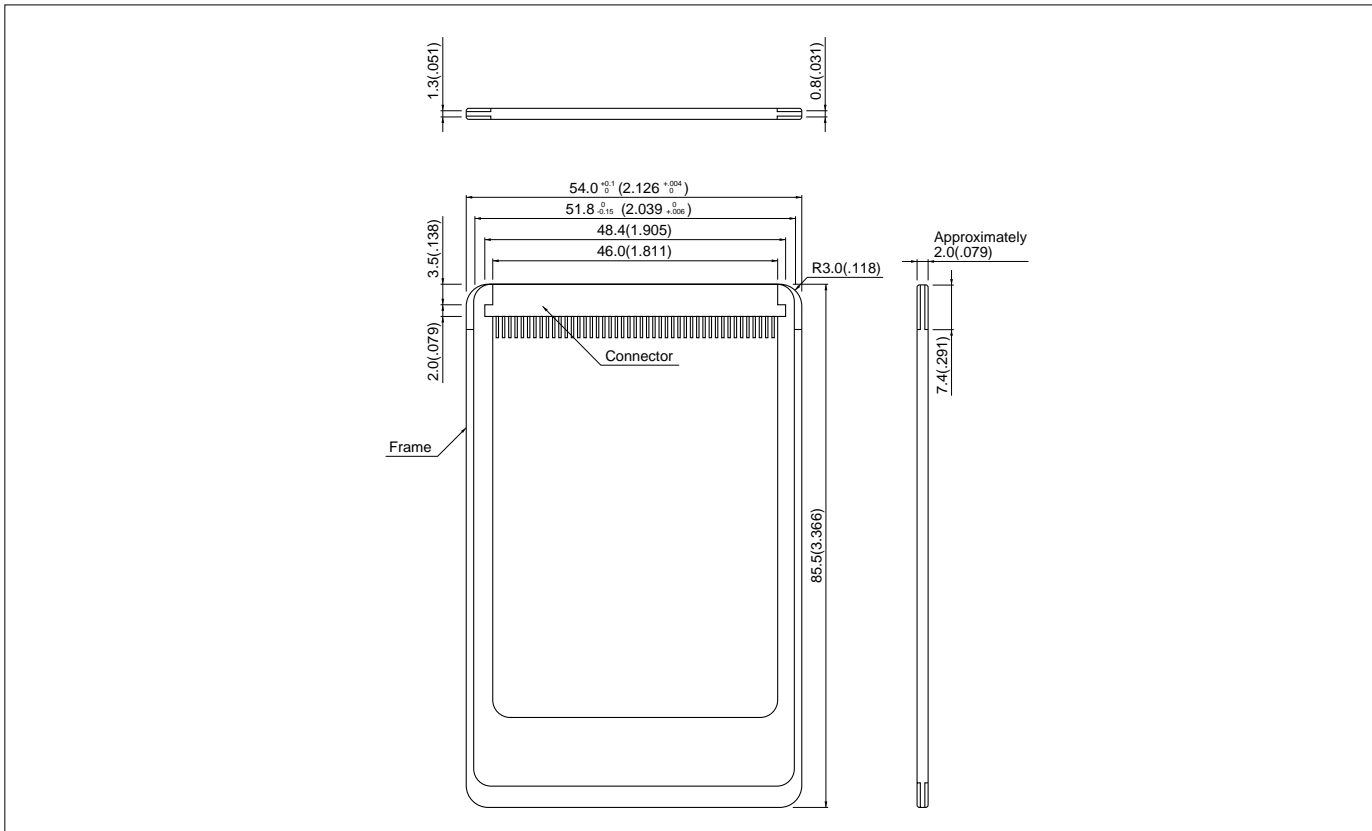
Header/SMT type



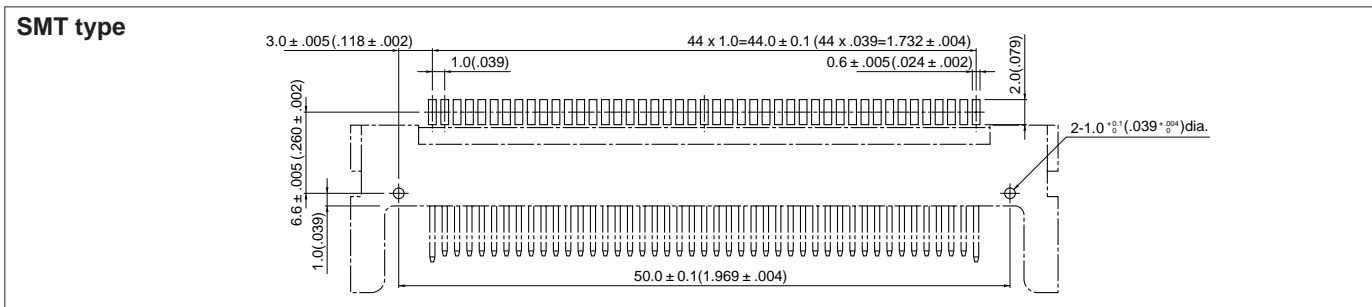
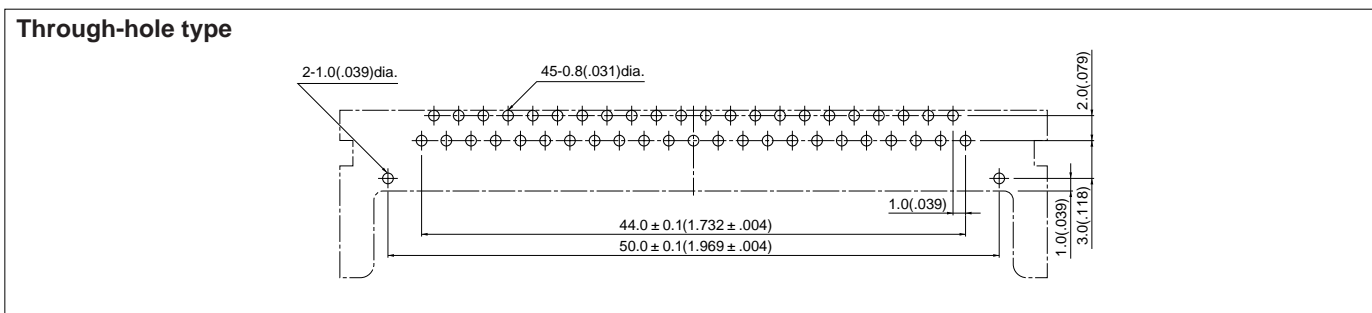
Circuits	Type	Model No.	Q'ty / box
45	Normal	ICM-A45H-ST13-4065N	160
	Normal with post	ICM-A45H-ST13-4065N1	
	Reverse	ICM-A45H-ST13-4065R	

MEMORY CARD CONNECTOR A TYPE

Typical dimensions of PC card with Memory card connector A type (for reference)



PC board layout (viewed from component side)



Note: 1. The dimensions above should serve as a guideline. Contact JST for details.
2. Tolerances are non-cumulative: ±0.05mm (±.002") for all centers.