Two-Piece Connectors for IC Memory Cards

■ JC20 SERIES B • C • D • E TYPE CONNECTORS

FEATURES

- High density contact spacing:
 1.0mm (.039") or 1.27mm (.050") depending on the connector type
- Socket connectors for card side are SMT type and pin connectors for system are right angle through hole type
- · Low profile socket housing
- Socket contact connecting area is protected from static electricity
- Highly reliable socket contacts with three connecting points (C, D, E type)

GENERAL SPECIFICATIONS

Number of Contacts (See page 196 to 202)	20, 38, 45 or 60
Contact Spacing (See page 196 to 202)	1.27mm (.050"), or 1.0mm (.039")
Current Rating	0.5 Amps
Dielectric Withstanding Voltage	250 VAC r.m.s. (for one minute)
Contact Resistance	20 milliohms max.
Insulation Resistance	100 megohms min.
Operating Temperature	-40°C to +80°C

MATERIALS AND FINISHES

Socket Connector

Description	Materials/Finishes
Insulator	Glass-filled Nylon (UL94V-0, Black) For B type, Glass-filled PET (UL94V-0, Black)
Contact	Phosphor Bronze (B, D type): Beryllium Copper (C, E type): Connecting area: Gold over Nickel Terminal area: Tin plating over Nickel

Pin Contact

Insulator	Glass-filled PET (UL94V-0, Black)
Contact	Phosphor Bronze Connecting area: Gold over Nickel Terminal area: Tin plating
Post (C type)	Brass/Tin plating



Two-Piece Connectors for IC Memory Cards

■ JC20 SERIES B TYPE CONNECTORS • SOCKET CONNECTOR FOR CARD SIDE

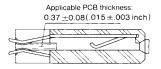
38 CONTACTS/1.27 (.050) PITCH

Туре	Part Number	Applicable PCB Thickness
F1	JC20-B38S-F1-A1	$0.37 \pm 0.08 \; (.015 \pm .003)$
F2	JC20-B38S-F2-A1	0.5 +0 (.020 +.000)
F3	JC20-B38S-F3-A1	$0.2 \pm 0.09 \; (.008 \pm .004)$

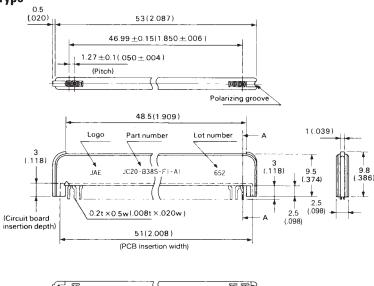
(Note) Contact finish: Gold plating 0.1 μ m (.000004") min. on connecting area.

Section A-A F1 Type

Double Sided Mounting

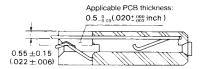


F1 Type



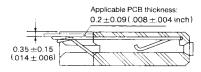
F2 Type

Double Sided Mounting



F3 Type

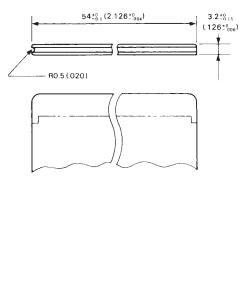
Single Sided Mounting



F2/F3 Type

0.5 53 (2.087) 46.99 ±0.15(1.850 ±.006) $1.27 \pm 0.1(.050 \pm .004)$ (Pitch) **PO-08** Polarizing groove 48.5 (1.909) Logo Lot number 1 (.039) JC20-B38S-F2-A1 9.8 (.386) 651 2.5 (.098)- $0.2t \times 0.5W(.008t \times .020W)$ 2.5 (.098) 49.5(1.949) (PCB insertion depth) (PCB insertion width)

Memory Card Outline Dimensions (Ref. only)





Two-Piece Connectors for IC Memory Cards

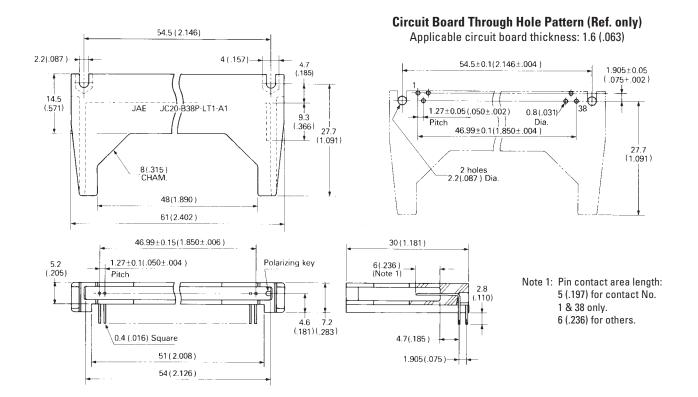
■ JC20 SERIES B TYPE CONNECTORS • PIN CONNECTOR FOR SYSTEM SIDE

38 CONTACTS/1.27 (.050) PITCH • RIGHT ANGLE THROUGH HOLE TYPE

Part Number:

JC20-B38P-LT1-A1

(Note) Contact finish: Gold plating 0.1µm (.000004") min. on connecting area.





Two-Piece Connectors for IC Memory Cards

■ JC20 SERIES D TYPE CONNECTORS • SOCKET CONNECTOR FOR CARD SIDE

20 CONTACTS/1.27 (.050) PITCH

Part Number:

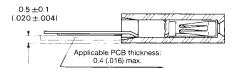
JC20-D20S-F1-A1

(Note) Contact finish: Gold plating 0.1 μ m (.000004") min. on connecting area.

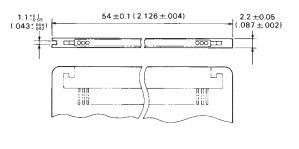
24.13±0.2 (.950±.008)

1.27 ±0.1(.050 ±.004) (Pitch) 1.5 (.059) 26.68 (1.050) Logo Part number A (.067) (.039) JAE JC20-D20S-F1-A1 6 (.236) (.236) 32.68 (1.287)

Section A-A



Memory Card Outline Dimensions

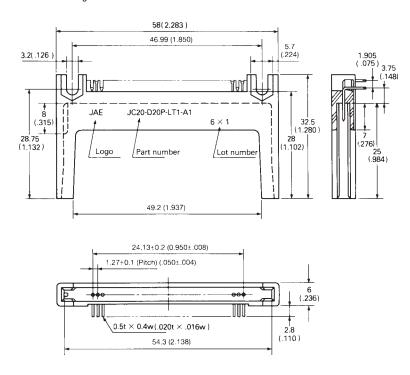


■ JC20 SERIES D TYPE CONNECTORS • PIN CONNECTOR FOR SYSTEM SIDE

Part Number:

JC20-D20P-LT1-A1

(Note) Contact finish: Gold plating 0.1 μ m (.000004") min. on connecting area.



PCB Through Hole Pattern (Ref. only) Applicable PCB thickness: 1.6 (.063)

46.99±0.1 (1.850±.004) 0.7 (028) Dia. 1 905±0.05 (0.075±.002) 1 27±0.05 (050±002) 24.13±0.1 (.950±.004) 2 Holes 3.5 (138) Dia



Two-Piece Connectors for IC Memory Cards

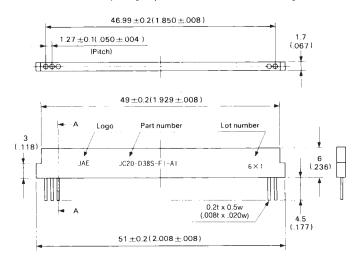
■ JC20 SERIES D TYPE CONNECTORS • SOCKET CONNECTOR FOR CARD SIDE

38 CONTACTS/1.27 (.050) PITCH

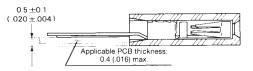
Part Number:

JC20-D38S-F1-A1

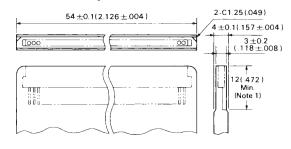
(Note) Contact finish: Gold plating 0.1µm (.000004") min. on connecting area.



Section A-A



Memory Card Outline Dimensions



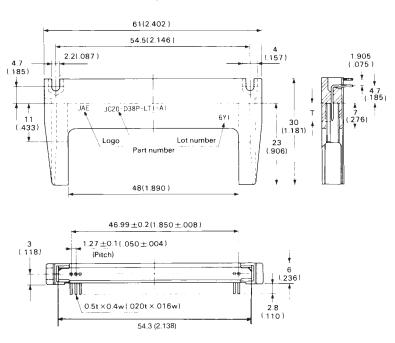
Note 1: Card thickness is 3 ± 0.2 (.118 \pm .008) in this area.

■ JC20 SERIES D TYPE CONNECTORS • PIN CONNECTOR FOR SYSTEM SIDE

Part Number:

JC20-D38P-LT1-A1

(Note) Contact finish: Gold plating 0.1µm (.000004") min. on connecting area.

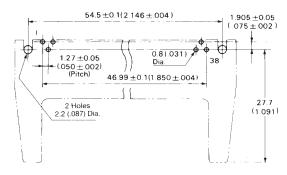


Pin contact area length (Dimension T)

Cont. No.	1, 2, 3, 36, 38	4, 35, 37	All Others
Length	5 (.197)	4 (.157)	4.5 (.177)

PCB Through Hole Pattern (Ref. only)

Applicable PCB thickness: 1.6 (.063)



Dimensions and specifications subject to change without notice.



Two-Piece Connectors for IC Memory Cards

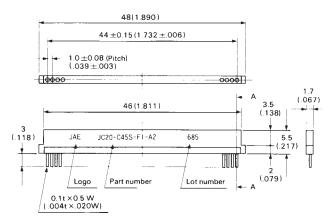
■ JC20 SERIES C TYPE CONNECTORS • SOCKET CONNECTOR FOR CARD SIDE

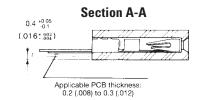
45 CONTACTS/1.0 (.039) PITCH

Part Number:

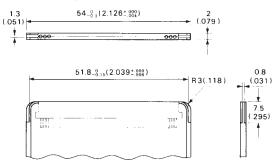
JC20-C45S-F1-A1

(Note) Contact finish: Gold plating 0.1µm (.000004") min. on connecting area.





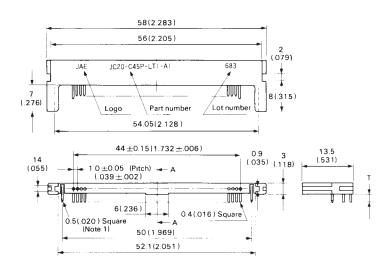
Memory Card Outline Dimensions



■ JC20 SERIES C TYPE CONNECTORS • PIN CONNECTOR FOR SYSTEM SIDE

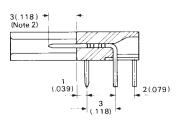
Part Number	T
JC20-C45P-LT1-A1	2 (.079)
JC20-C45P-LT2-A1	2.8 (.110)

(Note) Contact finish: Gold plating 0.1 μ m (.000004") min. on connecting area.



Note 1: Post to prevent connector from loosening (Both ends).

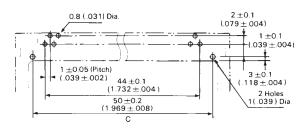
Section A-A



Note 2: 3.8 (.150) for contact No. 1 & 45 only. 3 (.118) for others.

PCB Through Hole Pattern (Ref. only)

Applicable PCB thickness: 1.6 (.063)





Two-Piece Connectors for IC Memory Cards

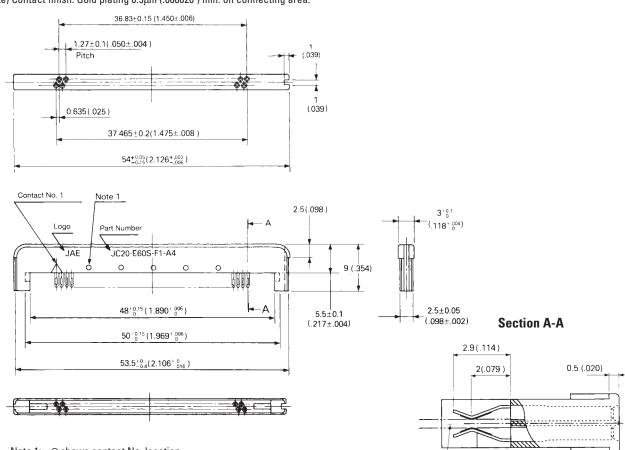
■ JC20 SERIES E TYPE CONNECTORS • SOCKET CONNECTOR FOR CARD SIDE

60 CONTACTS/1.27 (.050) PITCH

Part Number:

JC20-E60S-F1-A4

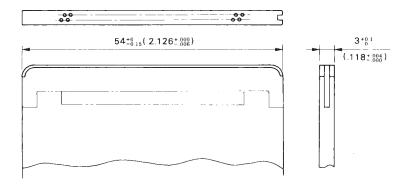
(Note) Contact finish: Gold plating 0.5µm (.000020") min. on connecting area.



Note 1: O shows contact No. location (Front side: 11, 21, 31, 41, 51,

Rear side: 10, 20, 30, 40, 50, 60)

Memory Card Outline Dimensions (Ref. only)



Applicable PCB 0.6~0.8 (.024~.031) thick

Dimensions and specifications subject to change without notice.



Two-Piece Connectors for IC Memory Cards

■ JC20 SERIES E TYPE CONNECTORS • PIN CONNECTOR FOR SYSTEM SIDE

60 CONTACTS/1.27 (.050) PITCH

Part Number	Polarizing Key Location from IC card insertion side
JC20-E60PA-LT1-A4	Right
JC20-E60PB-LT1-A4	Left

(Note) Contact finish: Gold plating 0.5µm (.000020") min. on connecting area.

