

0.25 mm Pitch Back-lock FPC Connector

FF10 Series

第一电子工业株式会社

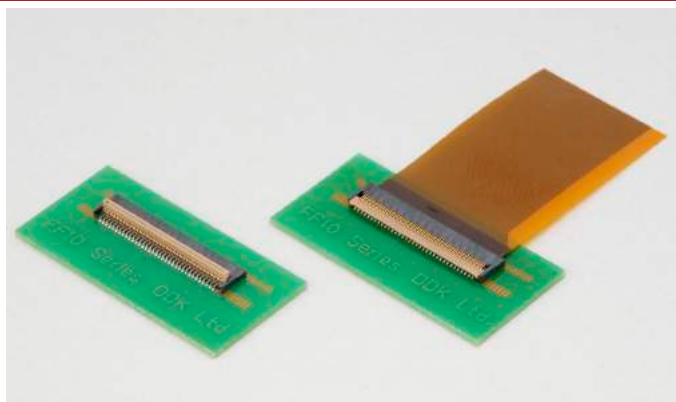
OUTLINE

FF10 series is 0.25mm pitch, depth 4.25mm and 0.95mm connector height.

It has both upper and lower contact positions.

Applicable FPC thickness is 0.15mm.

It is suitable for large number of contacts (more than 50 contacts).



FEATURE

- Minimize the winding of the FPC on the re-flow process, it can be arrange large number of contacts.
- Both upper and lower contacts design accepts any FPC insertion directions.
- DDK's original rotate oval cam lock mechanism; "Back-lock" system ensure the reliable connection.
- Back-lock structure ensures retention from inadvertent upward pulling of the FPC.
- Connectors delivered with the lock lever opened. Time saving for FPC inserting operation.
- Emboss tape and reel package for automatic mounting machine.
- High temperature resistant resin for lead free reflow process.
- Nickel barrier prevents solder wicking.

Note : Please do not close the lock lever without inserting the FPC.

APPLICATIONS

Mobile phone, notebook PC, PDA, other Portable devices

SPECIFICATIONS

Rated Voltage	50V AC (r.m.s.)
Rated Current	0.2A / Contact
Dielectric Withstand Voltage	200V AC (r.m.s.) / 1 minute
Insulation Resistance	50 M Ω min. at 250V DC
Contact Resistance	50m Ω max.

MATERIAL/FINISH



Item	Material / Finish
Contact	Copper Alloy / Au over Ni
Housing	LCP Resin (UL94V-0) / Black
Lock Lever	PPS Resin (UL94V-0) / Brown

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Please verify the latest specifications with our drawings.

▶ 0.25mm Pitch FPC Connector

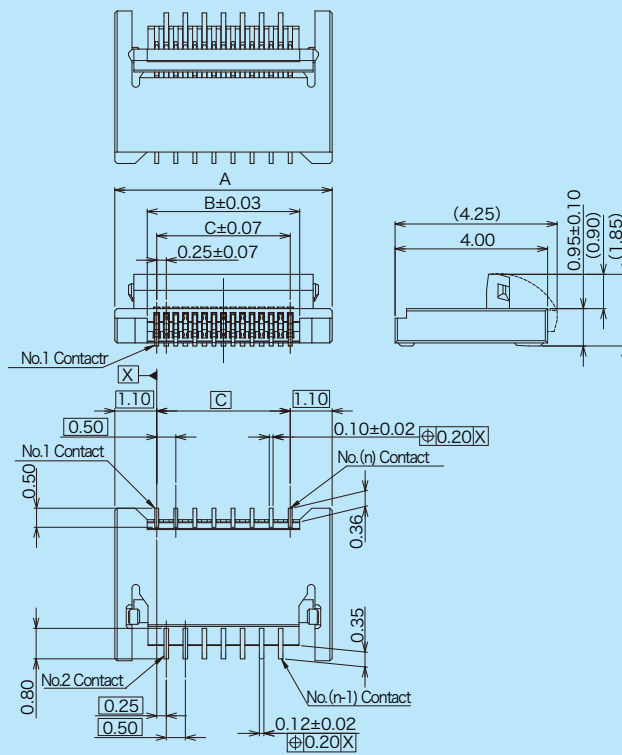
FF10- A-R12B

① ② ③ ④ ⑤ ⑥ ⑦

Dimensions

① Series	FF10
② Number of Contact	Refer to table-1
③ Contact Position	A : Upper and lower contacts
④ Contact Style	R : Right Angle
⑤ Contact Tail Length	1 : 0.5mm & 0.8mm
⑥ Contact Plating	2 : Au over Ni
⑦ Lock Lever Style	B : Long lock

Odd Number of Contacts



Even Number of Contacts

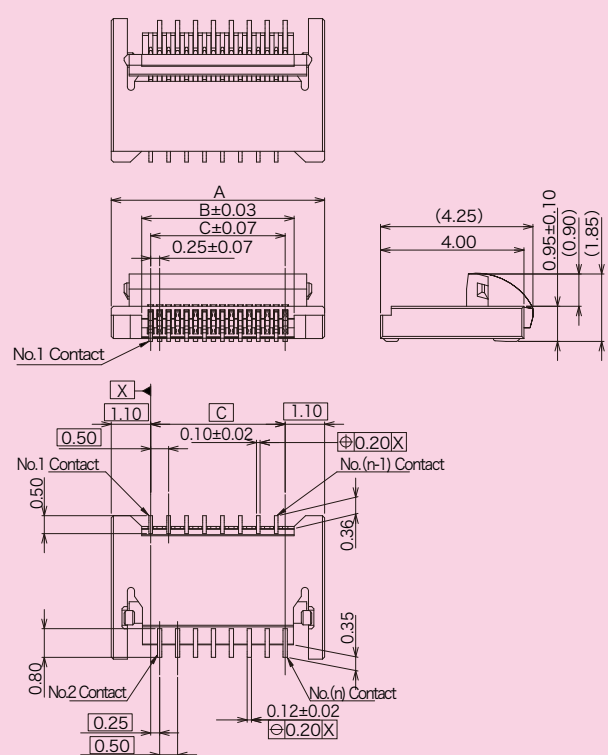


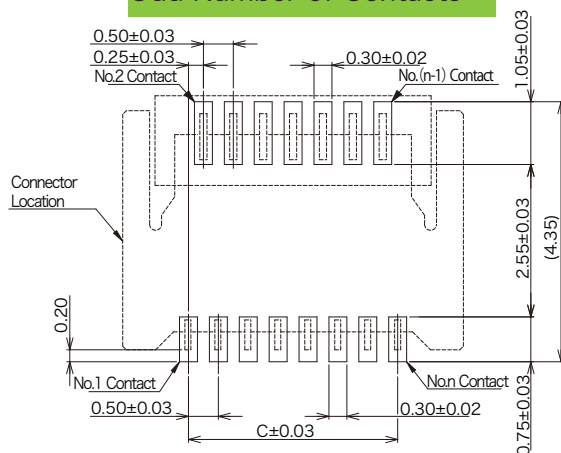
Table-1

Part Number	Number of Contact	A	B	C
FF10- 51A-R12B	51	14.70	13.00	12.50
FF10- 70A-R12B	70	19.45	17.75	17.25
FF10- 80A-R12B	80	21.95	20.25	19.75

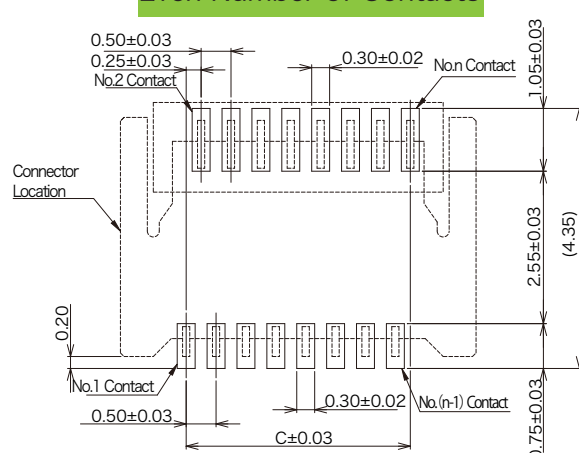
Recommended PCB Mounting Dimensions

Contacts are arranged zigzag from No.1 contact.

Odd Number of Contacts



Even Number of Contacts

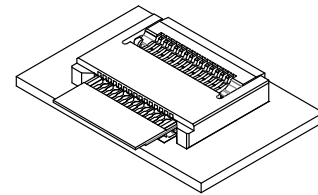
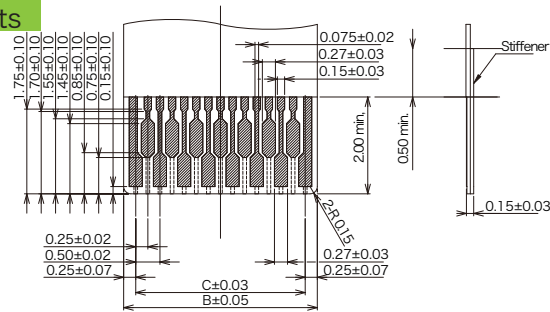


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▶ Recommended FPC Pattern Dimensions

Standard Type FPC

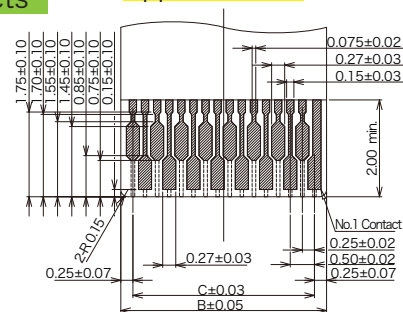
Odd Number of Contacts



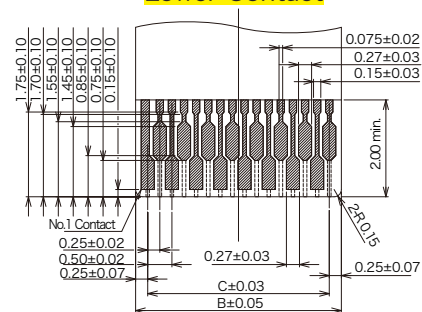
Standard Type FPC mating

Even Number of Contacts

Upper Contact

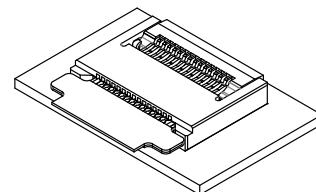
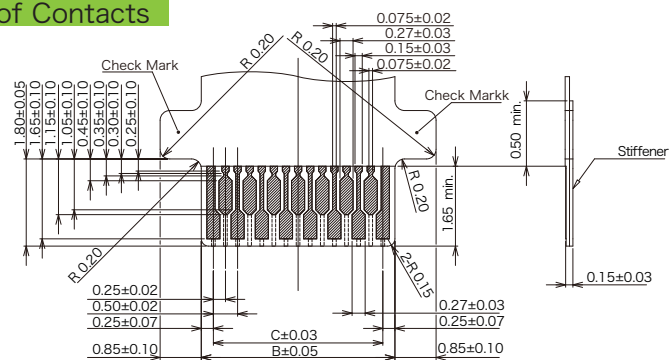


Lower Contact



With Check Mark Type FPC

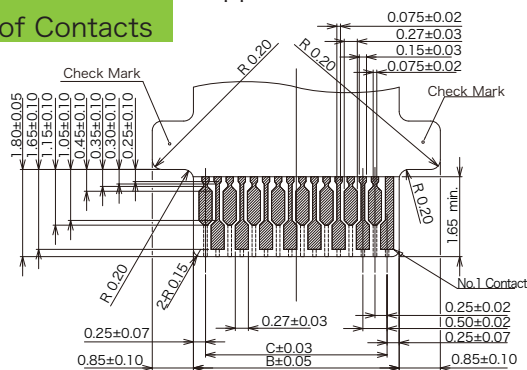
Odd Number of Contacts



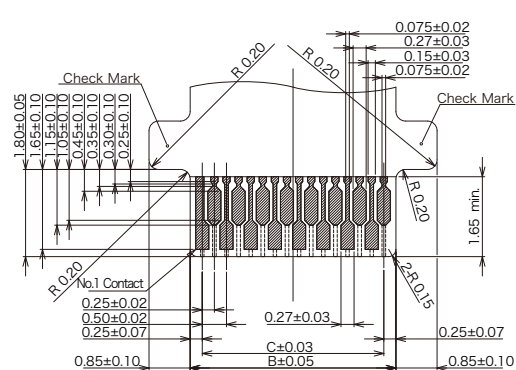
With Check Mark Type FPC mating

Even Number of Contacts

Upper Contact

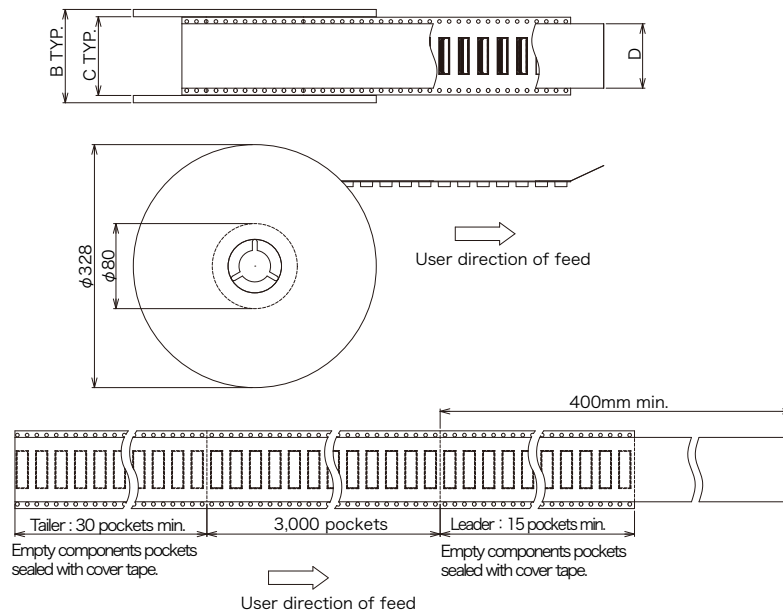


Lower Contact

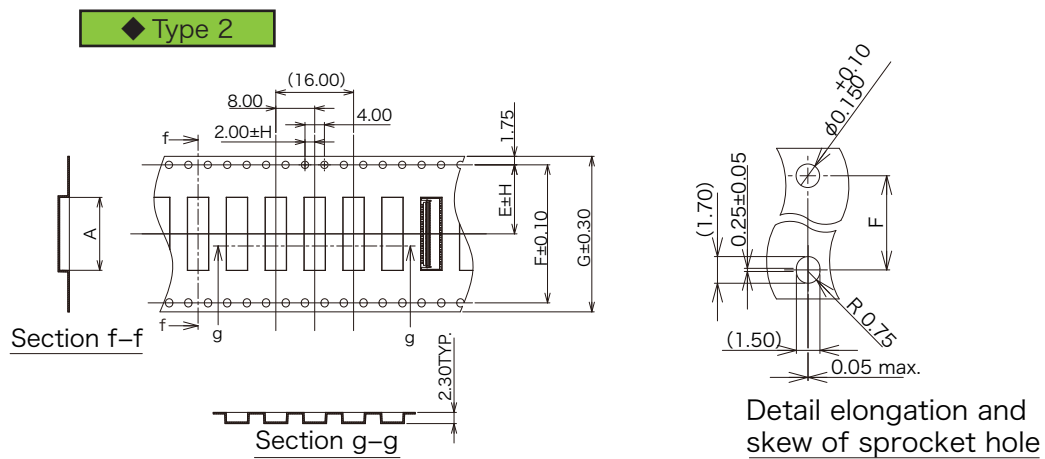


► Package Specifications

■ Reel Dimensions



■ Emboss Tape Dimensions



Part Number	Number of Contact	A	B	C	D	E	F	G	H	Emboss Type
FF10-51A-R12B	51	15.00	38.40	32.40	26.50	14.20	28.40	32.00	0.10	Type2
FF10-70A-R12B	70	19.75	50.40	44.40	38.50	20.20	40.40	44.00	0.15	
FF10-80A-R12B	80	22.25								

■ Quantity : 3,000pcs./reel