

0.25 mm Pitch Back-lock FPC Connector

FF10S Series



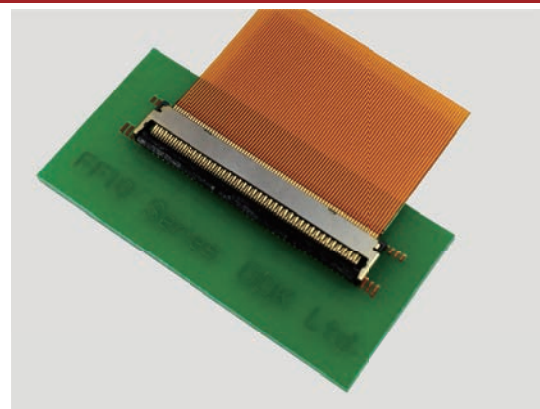
OUTLINE

FF10S series is 0.25mm pitch, depth 4.25mm and 1.06mm connector height.

It has both upper and lower contact positions.

Applicable FPC thickness is 0.15mm.

It is suitable for large number of contacts (up to 80 contacts).



FEATURES

- Improved robustness by attaching a metal shell.
- Minimize the winding of the connector on the re-flow process, it can be arrange large number of contacts.
- Both upper and lower contacts design accepts any FPC insertion directions.
- 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) / Black
Shell	Copper Alloy / Au over Ni

FF10S- A-R12B-3J

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① Series	FF10S
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
⑧ Material	3J : Halogen-free,PFAS Free

Dimensions

Technical drawing of a 20-pin connector. The drawing includes a top view, a side view, and a detailed view of the connector pins. Dimensions and tolerances are provided for various features:

- Top View Dimensions:**
 - A: ± 0.10
 - B: ± 0.05
 - C: ± 0.03
 - Pin pitch: 0.25 ± 0.07
 - Pin width: 0.10 ± 0.02
 - Pin spacing: $\pm 0.20 \times$
 - Pin height: 0.08 ± 0.03
 - Pin thickness: $0.30 \times$
- Side View Dimensions:**
 - Overall width: 4.00
 - Pin height: 0.08
 - Pin spacing: 0.06 ± 0.03
 - Pin thickness: $0.30 \times$
- Pin Details:**
 - Pin 1: 0.10
 - Pin 2: 0.15
 - Pin 3: 0.10
 - Pin 4: 0.15
 - Pin 5: 0.10
 - Pin 6: 0.15
 - Pin 7: 0.10
 - Pin 8: 0.15
 - Pin 9: 0.10
 - Pin 10: 0.15
 - Pin 11: 0.10
 - Pin 12: 0.15
 - Pin 13: 0.10
 - Pin 14: 0.15
 - Pin 15: 0.10
 - Pin 16: 0.15
 - Pin 17: 0.10
 - Pin 18: 0.15
 - Pin 19: 0.10
 - Pin 20: 0.15
- Other Dimensions:**
 - Pin 1: 0.10
 - Pin 2: 0.15
 - Pin 3: 0.10
 - Pin 4: 0.15
 - Pin 5: 0.10
 - Pin 6: 0.15
 - Pin 7: 0.10
 - Pin 8: 0.15
 - Pin 9: 0.10
 - Pin 10: 0.15
 - Pin 11: 0.10
 - Pin 12: 0.15
 - Pin 13: 0.10
 - Pin 14: 0.15
 - Pin 15: 0.10
 - Pin 16: 0.15
 - Pin 17: 0.10
 - Pin 18: 0.15
 - Pin 19: 0.10
 - Pin 20: 0.15

Table-1

Recommended PCB Mounting Dimensions

Part Number	Number of Contact	A	B	C	D
FE10S- 80A-R12B-3J	80	22.15	21.95	20.25	19.75

Contacts are arranged zigzag from No.1 contact.

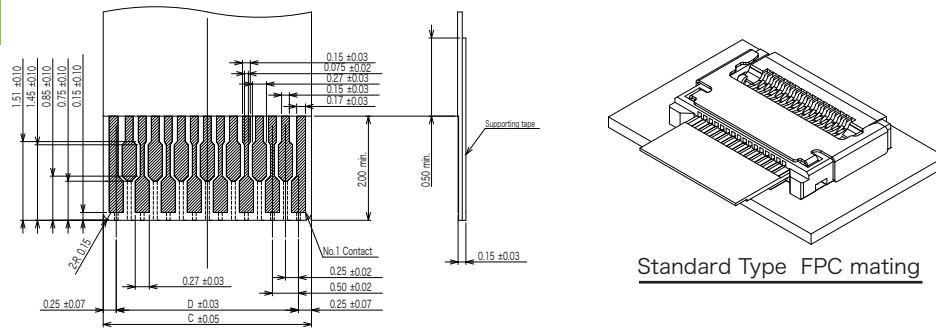
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Please verify the latest specifications with our drawings.

▶ Recommended FPC Pattern Dimensions

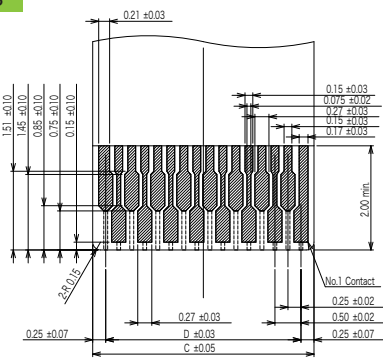
Standard Type FPC

Odd Number of Contacts

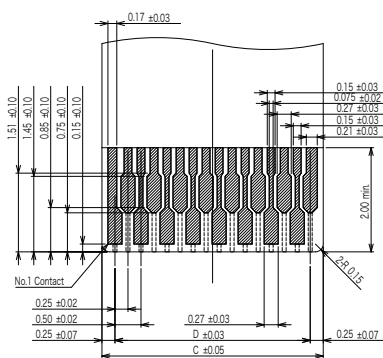


Even Number of Contacts

Upper Contact

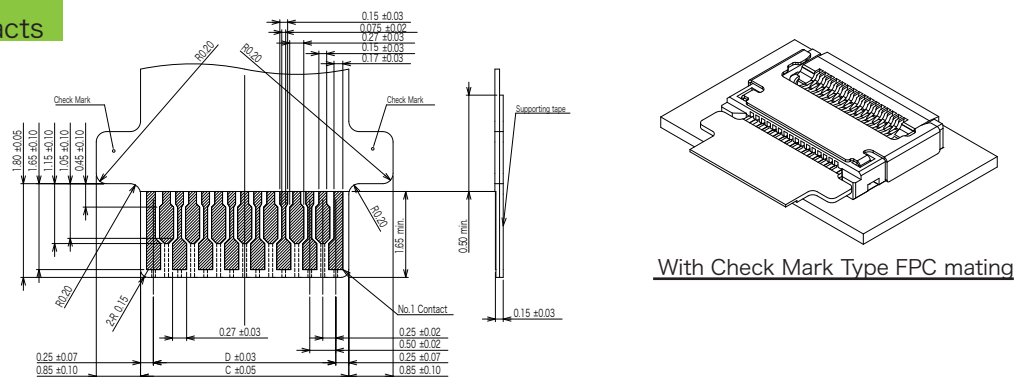


Lower Contact



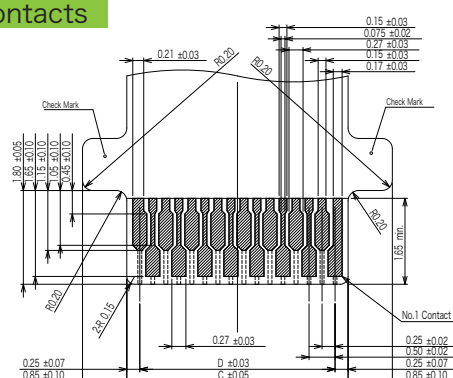
With Check Mark Type FPC

Odd Number of Contacts

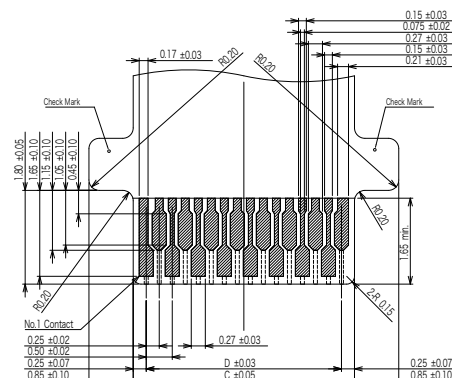


Even Number of Contacts

Upper Contact



Lower Contact



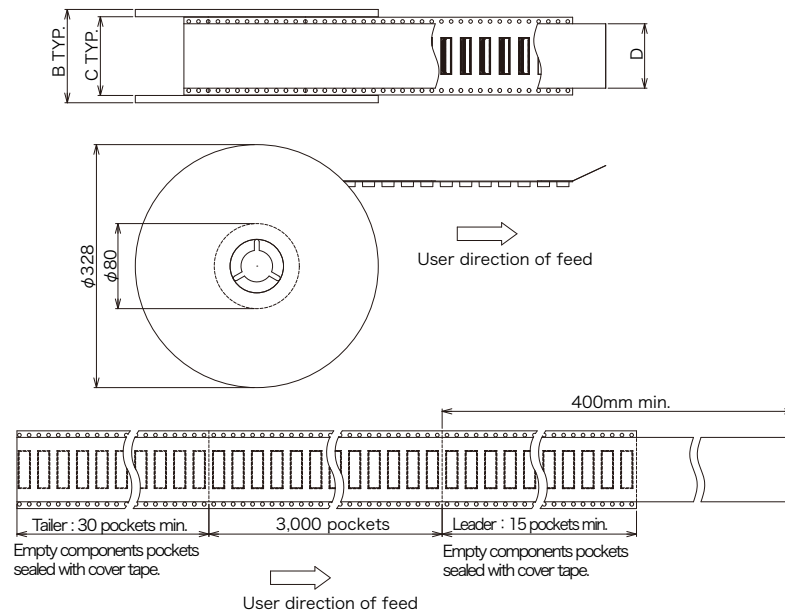
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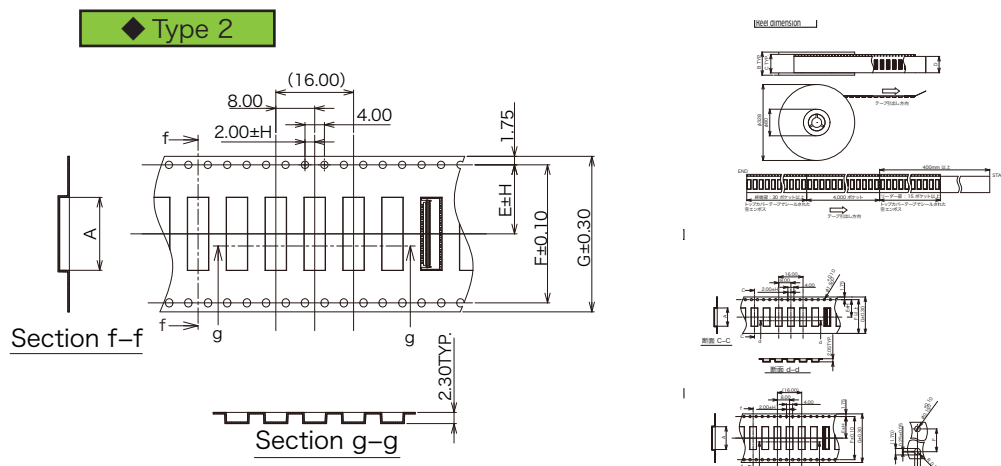
<https://www.connector.fujikura.com>

Package Specifications

Reel Dimensions



Emboss Tape Dimensions



Part Number	Number of Contact	A	B	C	D	E	F	G	H	Emboss Type
FF10S-80A-R12B-3J	80	22.50	50.40	44.40	38.50	20.20	40.40	44.00	0.15	Type2

Quantity : 3,000pcs./reel