



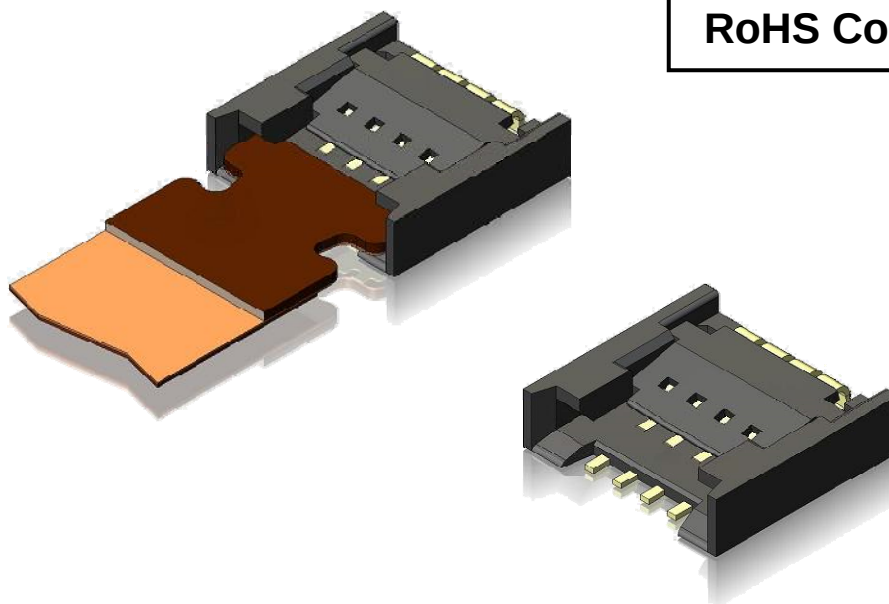
0.5mm Pitch, 0.9mm Overall Height FPC Connector

CONNECTOR

MB-0255-1

November 2012

FA10 Series

RoHS Compliant

The FA10 Series is a 0.5mm pitch, top and bottom-surface connection type, one-action LIF* insertion FPC connector ideally suited for saving space in mobile devices.

Features

- Space saving FPC connector with 0.5mm pitch, 0.9 overall height, 3.2mm depth.
- Applicable FPC thickness $0.2 \pm 0.03\text{mm}$, top and bottom-surface connection type, LIF structure (non-sliding point of contact) .
- Guides for FPC sides for friction lock and prevention of misalignment.
- One-action mating, with no need for actuator or slider operation during insertion and removal.
- Tapered guides in the insertion area for improved FPC insertion guidance.
- Board pattern traces are possible under the connector, excluding terminal areas. Terminals at both front and back improve board retention strength.
- Pb-free, halogen-free compliant product.
- Ni barrier prevents solder wicking.

General Specifications

- | | |
|--|--|
| ■No. of Contacts: 4, 5, 6, 10 positions | ■Rated Current: DC 0.5 A per terminal |
| ■Contact Resistance: $70\text{m}\Omega$ max | ■Rated Voltage: AC, DC 50V per terminal |
| ■Dielectric Withstanding Voltage:
AC250 Vr.m.s per minute | ■Applicable FPC Thickness: $0.2 \pm 0.03\text{mm}$ |
| ■Operating Temperature:
-40 Deg. C to +85 Deg. C | ■Pitch: 0.5mm one row alignment |
| ■Durability: 20 mating cycles | |

*LIF: Low Insertion Force

Materials and Finishes

Component	Material / Finish
Housing	Heat-resistant resin (black, halogen-free)
Contact	Cu alloy, Au plating over Ni Au 0.1μm min.

Ordering Information

FA10 ** S A1 – R8000

Series

No. of Contacts

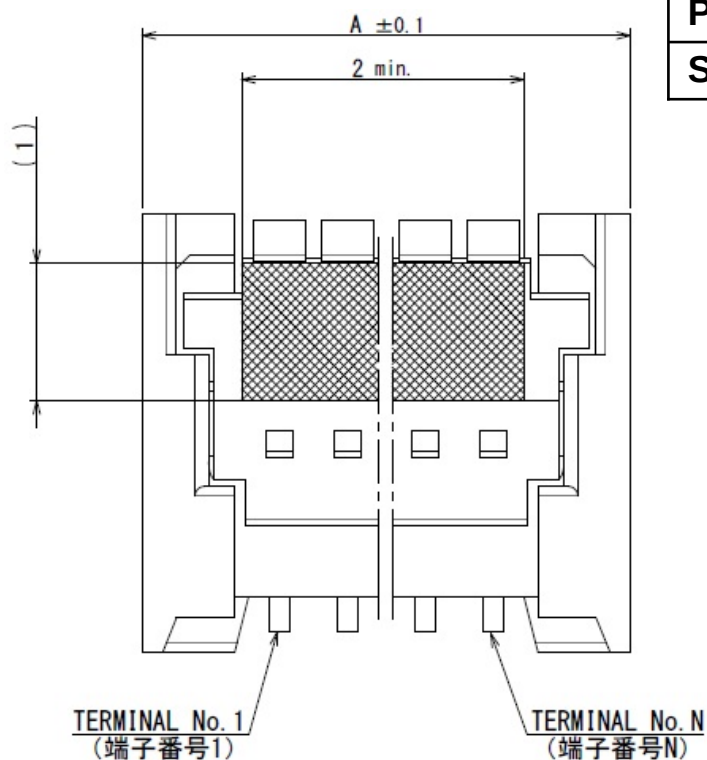
Reel Product: 8,000 pcs.

Modification Code

Number of Contacts

No. of Contacts	Development Status
4	Now in mass-production
5	Samples available
6	Now in mass-production
8	Development scheduled
10	Samples available

Development planned for additional pin count variations.
Maximum pin count will be 10 position.

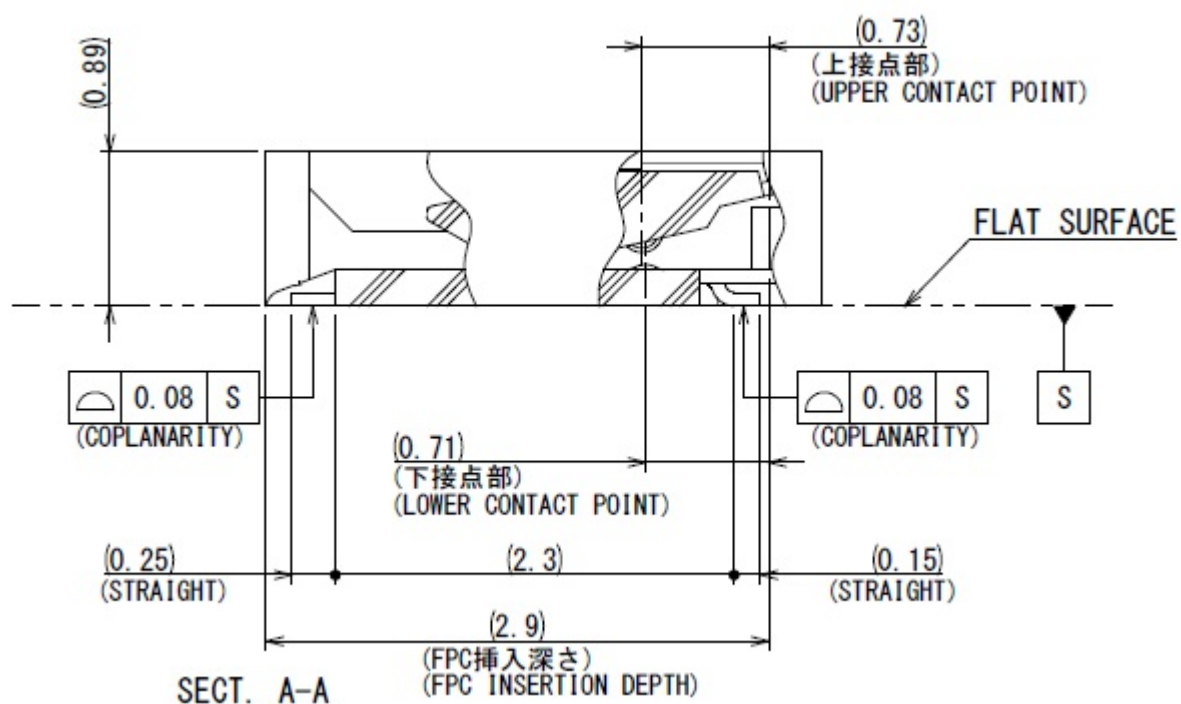
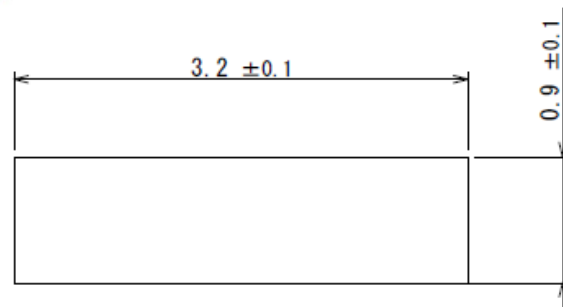
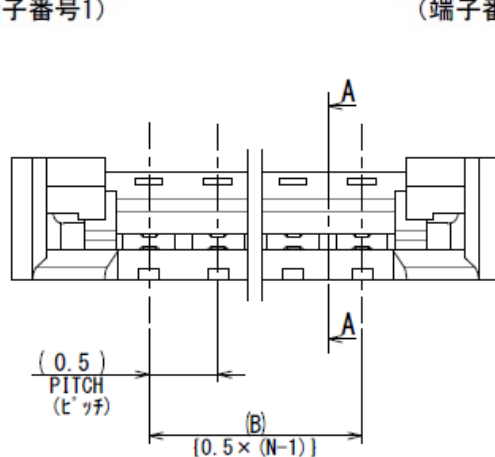


Part Number	FA100*SA1
SJ Drawing	SJ111450

Unit: mm

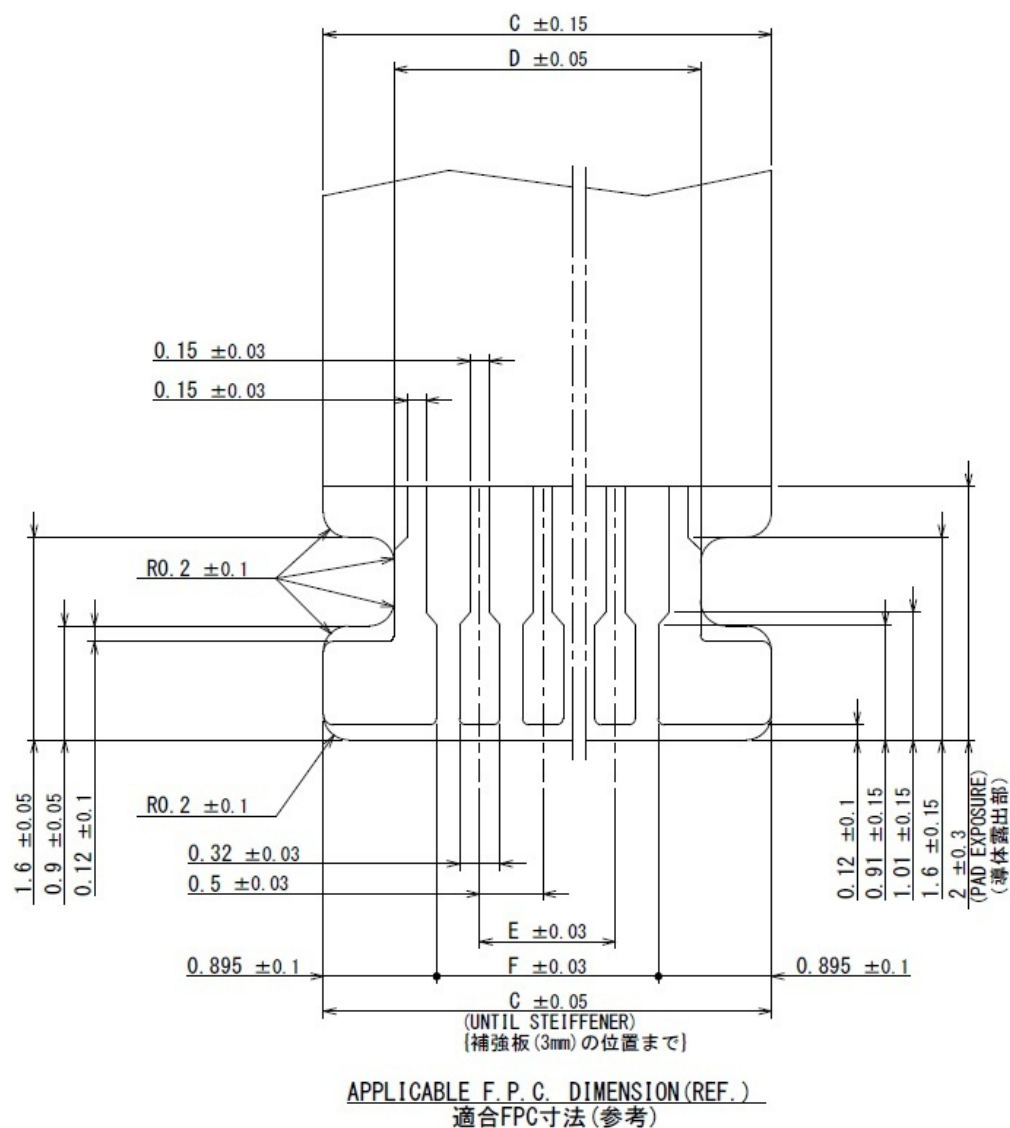
Dimensions

PRODUCT NO.	A	B
FA1004SA1	3.5	1.5
FA1005SA1	4.0	2.0
FA1006SA1	4.5	2.5
FA1008SA1	5.5	3.5
FA1010SA1	6.5	4.5



• Applicable FPC Dimensions (for reference)

Unit: mm

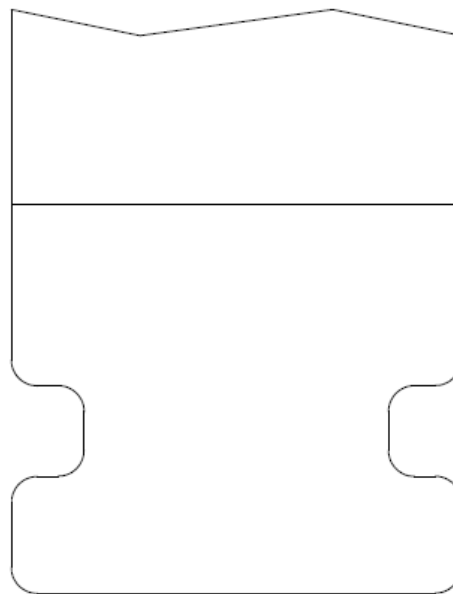
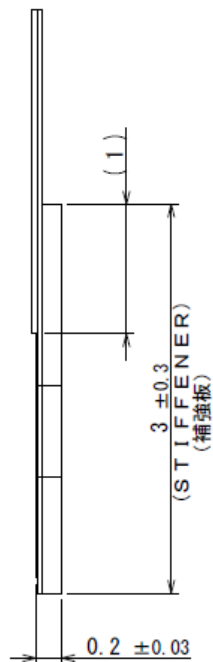


Dimensions

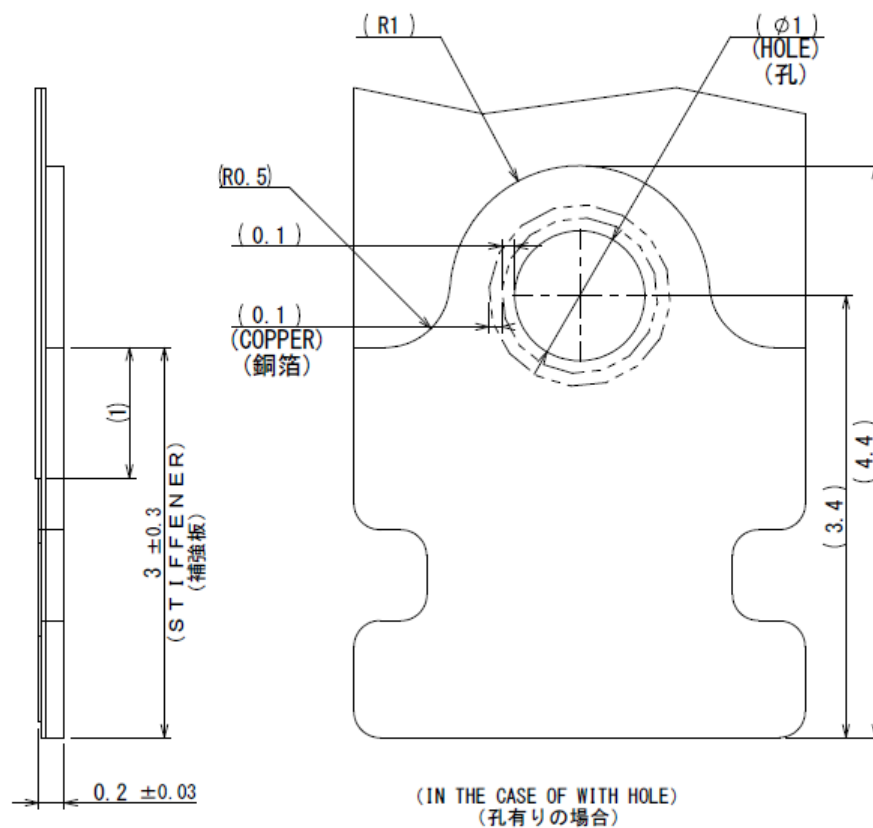
PRODUCT NO.	C	D	E	F
FA1004SA1	2.97	1.73	0.5	1.18
FA1005SA1	3.47	2.23	1.0	1.68
FA1006SA1	3.97	2.73	1.5	2.18
FA1008SA1	4.97	3.73	2.5	3.18
FA1010SA1	5.97	4.73	3.5	4.18

Without Hole

Unit: mm



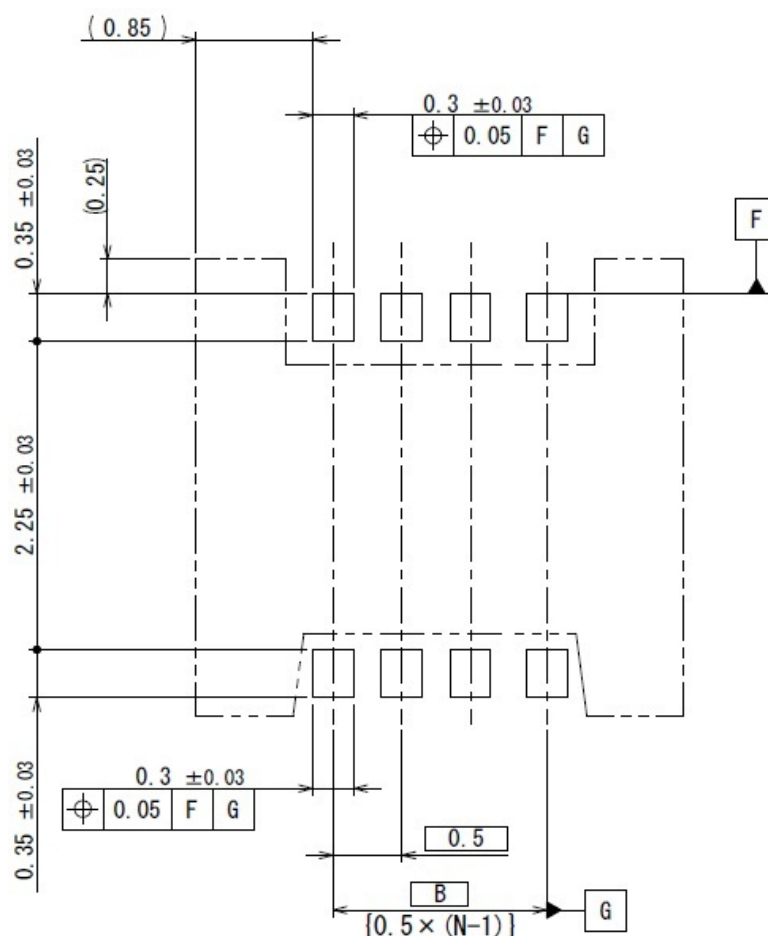
(IN THE CASE OF WITHOUT HOLE)
(孔無しの場合)

With Hole

(IN THE CASE OF WITH HOLE)
(孔有りの場合)

• Applicable Board Dimensions (for reference)

Unit: mm



APPLICABLE P.C.B. DIMENSION (REF.)
適合基板寸法 (参考)

Related Documents

SJ Drawing	SJ111450
Packaging Drawing	SJ111451
Specifications	JACS-10931-0
Handling Instructions	JAHL-10931

Notice: Products shown in this brochure are made for the applications listed below. However, if the above-mentioned products are to be used in aerospace devices, marine cable-connection devices, atomic power control systems, medical equipment for life-support systems, or any other specific application requiring extremely high reliability, please contact JAE for further information.

Recommended applications: Computers, Office machines, Measuring devices, Telecommunication devices (Terminals, Mobile devices), AV devices, Household applications, FA devices, etc.

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* The specifications in this brochure are subject to change without notice. Please contact JAE for information.

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