

NEW



0.5mm Pitch, 0.9mm Overall Height FPC Connector

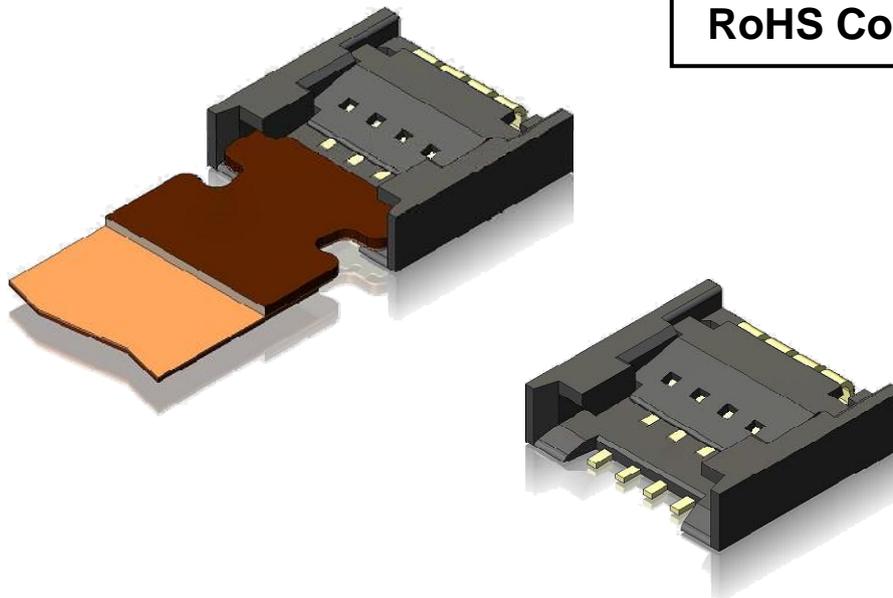
CONNECTOR

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: 70mΩ max                                | ■Rated Voltage: AC, DC 50V per terminal            |
| ■Dielectric Withstanding Voltage:<br>AC250 Vr.m.s per minute | ■Applicable FPC Thickness: $0.2 \pm 0.03\text{mm}$ |
| ■Operating Temperature:<br>-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

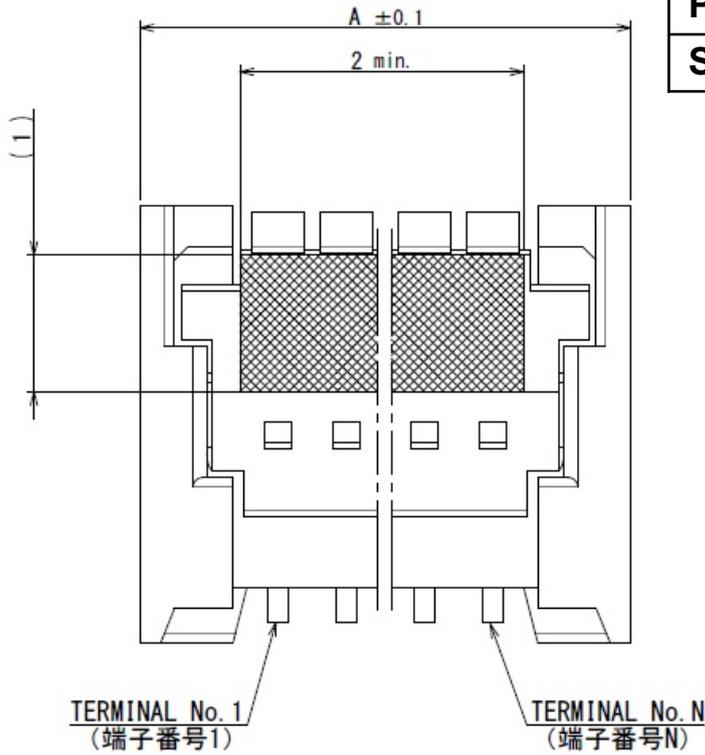
Number of Contacts

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.

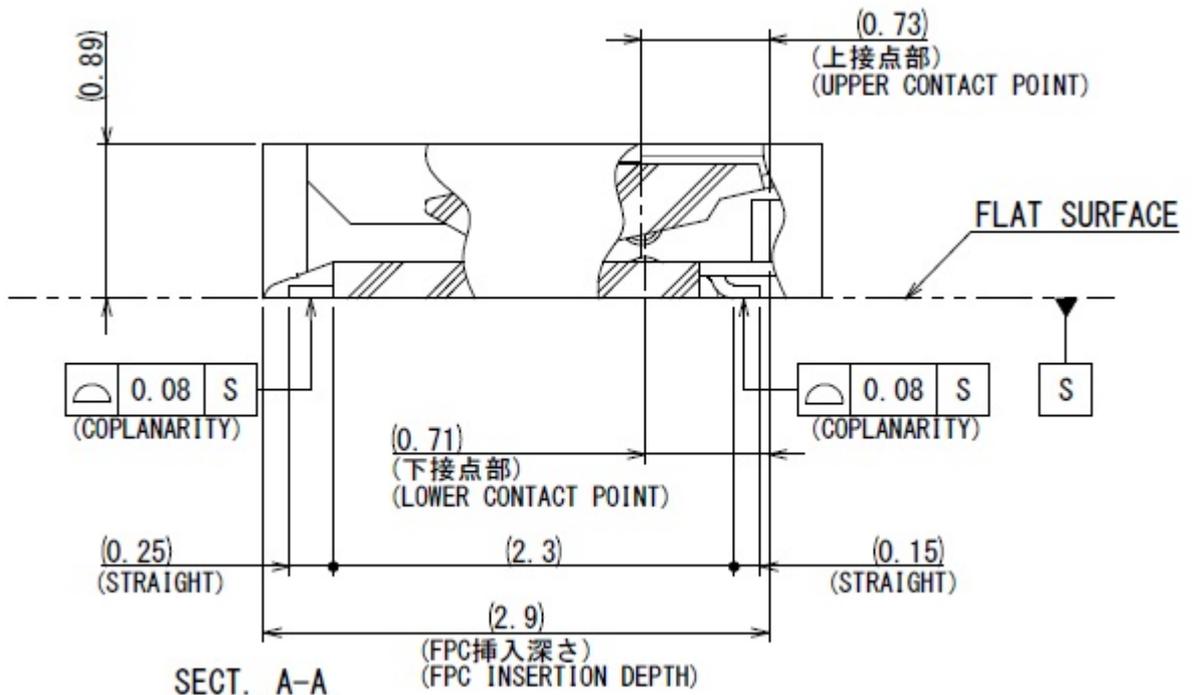
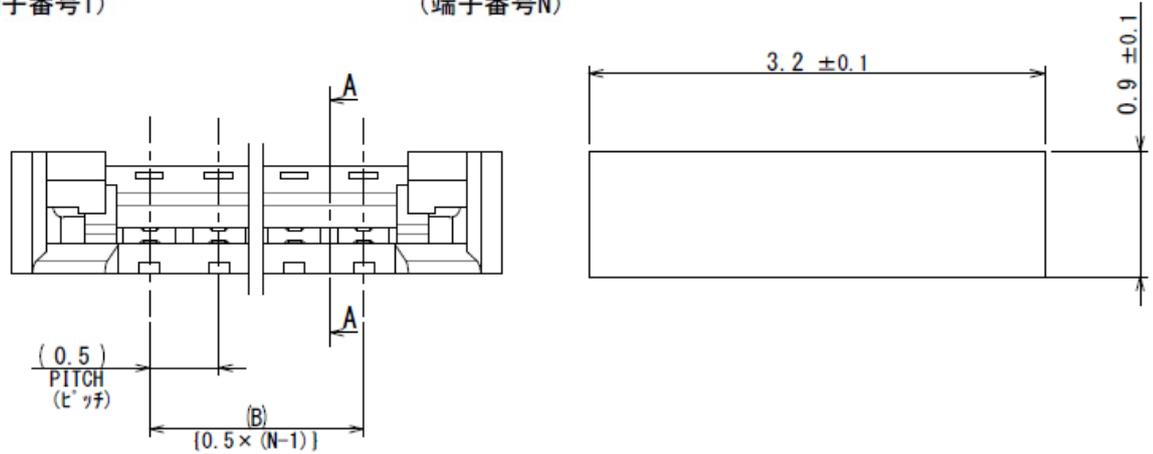
<b>Part Number</b>	<b>FA100*SA1</b>
<b>SJ Drawing</b>	<b>SJ111450</b>

Unit: mm



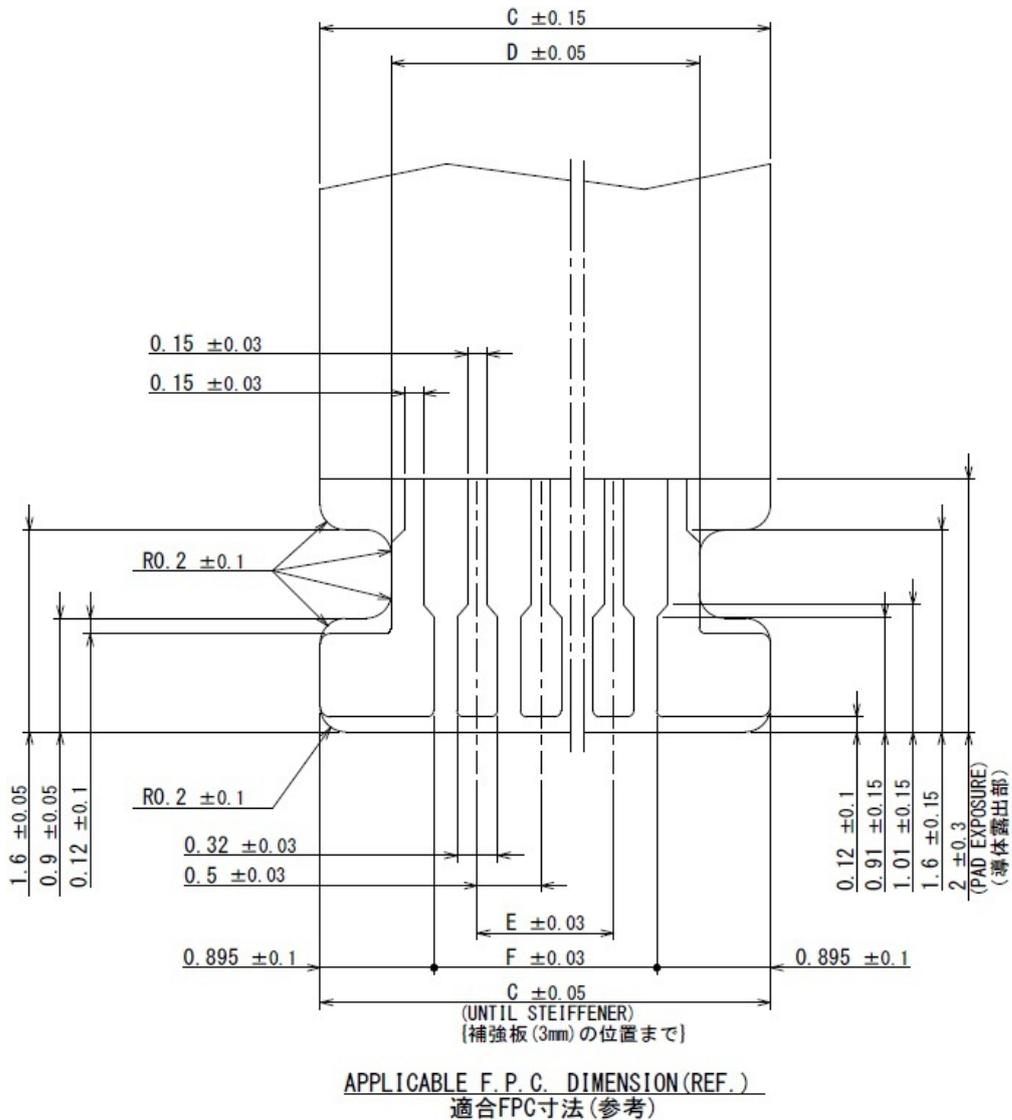
Dimensions

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

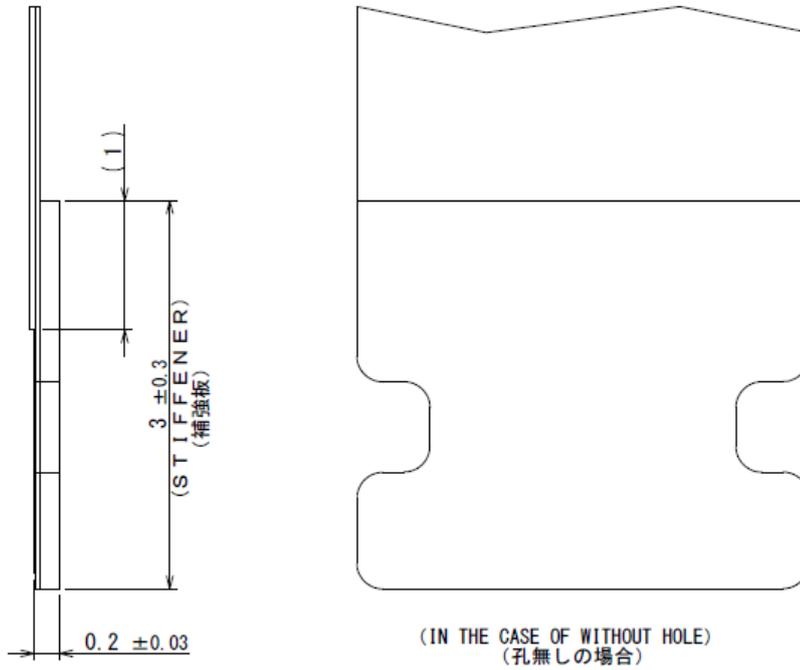


Dimensions

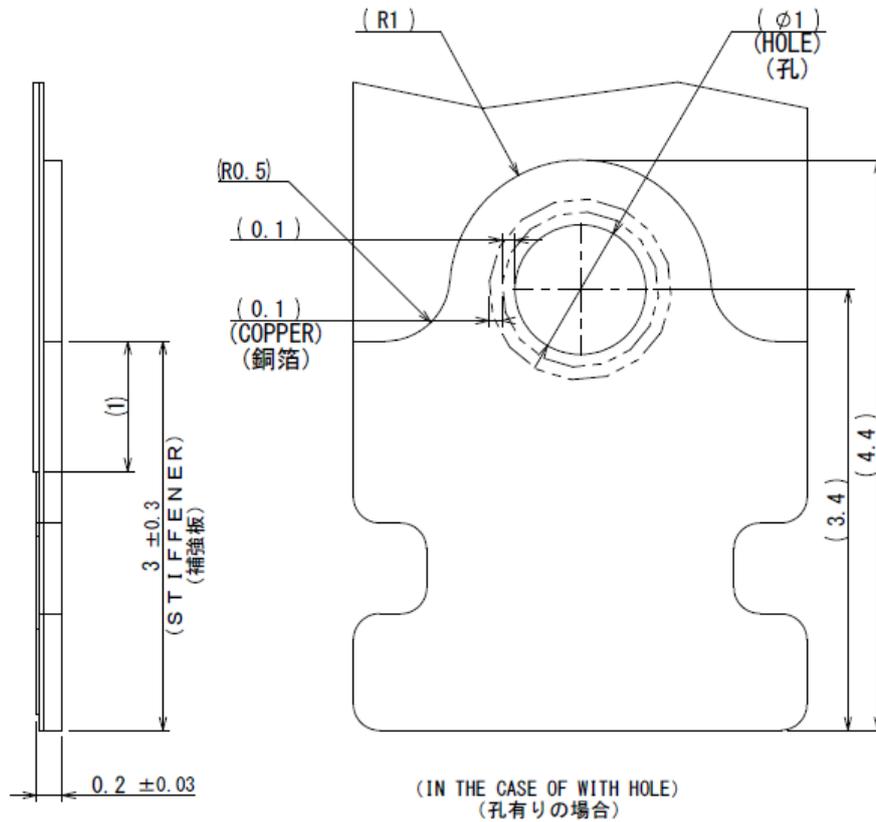
PRODUCT NO.	C	D	E	F
FA1004SA1	2.97	1.73	0.5	1.18
FA1005SA1	3.47	2.23	1.0	1.68
FA1006SA1	3.97	2.73	1.5	2.18
FA1008SA1	4.97	3.73	2.5	3.18
FA1010SA1	5.97	4.73	3.5	4.18

**Without Hole**

Unit: mm

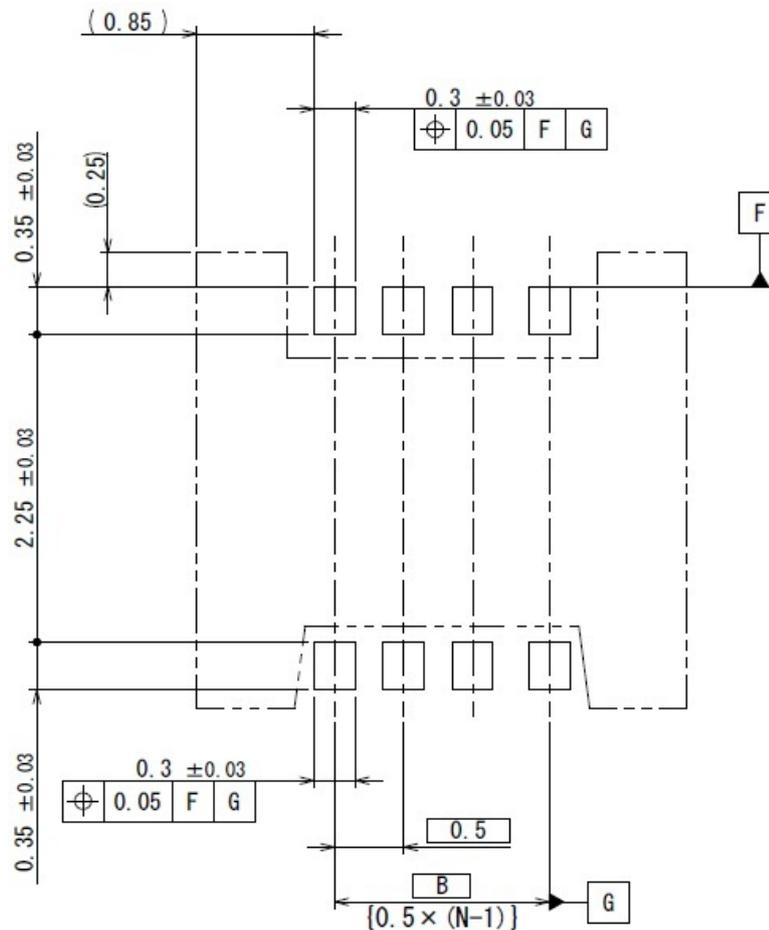


**With Hole**



## • 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	J AHL-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.