

**NEW**  

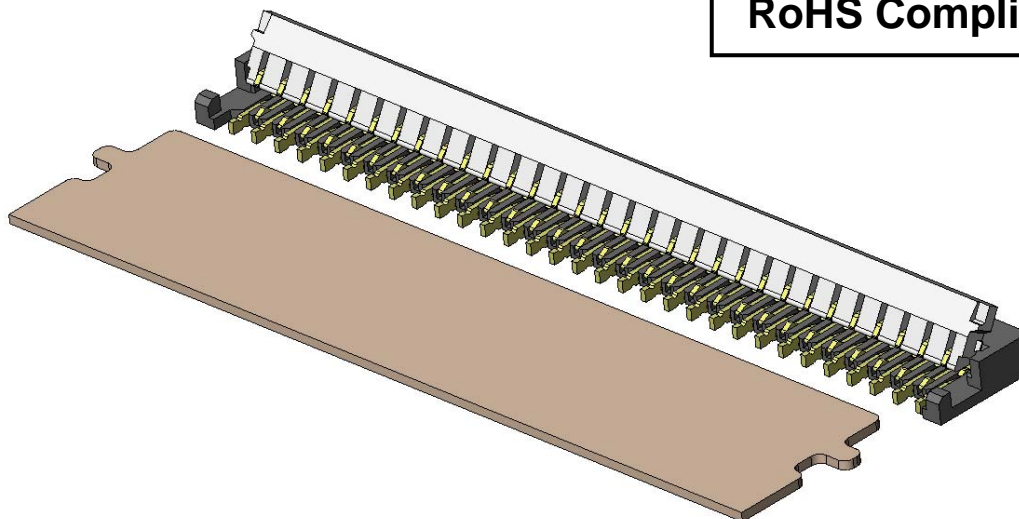

0.3mm Pitch, 0.9mm Height FPC Connector

CONNECTOR

MB-0222-5

January 2013

# FB10 Series

**RoHS Compliant**

The FB10 Series is a 0.3mm pitch, low profile, bottom-surface connection type FPC connector that is ideally suited for ever-smaller hand-held devices such as smartphones and tablet PCs.

## Features

- Space-saving FPC connector with 0.3mm pitch, 0.9mm overall height, 2.5mm depth.
- Applicable FPC thickness  $0.2 \pm 0.03\text{mm}$ , ZIF structure, bottom-surface connection type.
- Guides for FPC sides prevent misalignment by holding the FPC in place until the actuator locks.
- Easy actuator operation.
- Open actuator is lightly locked in place so it does not to interfere with FPC insertion.
- Board pattern traces are possible under the connector (excluding terminal area).
- Pb-free, halogen-free compliant product.
- Ni barrier prevents solder wicking.
- Compliant with rated current of DC 0.35A per contact.

## General Specifications

- |  |   |
|--|---|
| ■No. of Contacts: 11 to 61 positions                         | ■Rated Current: DC 0.35 A per contact                 |
| ■Contact Resistance: $80\text{m}\Omega$ max                  | ■Rated Voltage: AC, DC each 50V per contact           |
| ■Dielectric Withstanding Voltage:<br>AC250 Vr.m.s per minute | ■Applicable FPC Thickness:<br>$0.2 \pm 0.03\text{mm}$ |
| ■Operating Temperature:<br>-40 Deg. C to +85 Deg. C          | ■Pitch: 0.3mm staggered alignment                     |
| ■Durability: 20 mating cycles                                |   |

## Materials and Finishes

Component	Material / Finish
Housing	Heat-resistant resin (Halogen-free)
Actuator	Heat-resistant resin (Black, Halogen-free)
Contact (2 types)	Copper alloy / Au plating over Ni Contact: 0.1μm min. Au plating Terminal: 0.03μm min. Au plating

## Ordering Information

**FB10 S0 \*\* J A 2 - R6000**

Series

Reel Product: 6000 pcs.

No. of Contacts

Modification Code

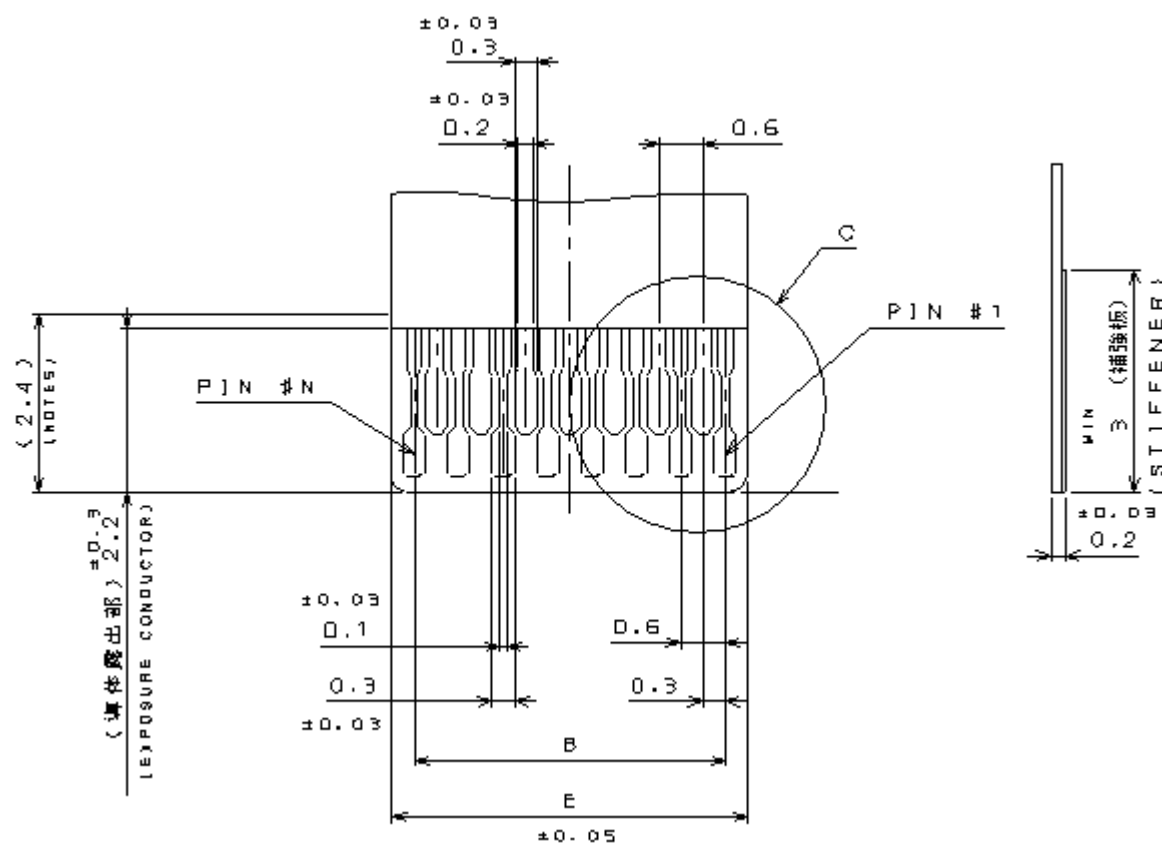
## Number of Contacts Available

No. of Contacts	Development Status
11	Samples available
13	Now in mass-production
15	Now in mass-production
19	Samples available
21	Samples available
27	Now in mass-production
31	Now in mass-production
33	Now in mass-production
35	Samples available
39	Now in mass-production
41	Now in mass-production
45	Now in mass-production
51	Now in mass-production
61	Now in mass-production

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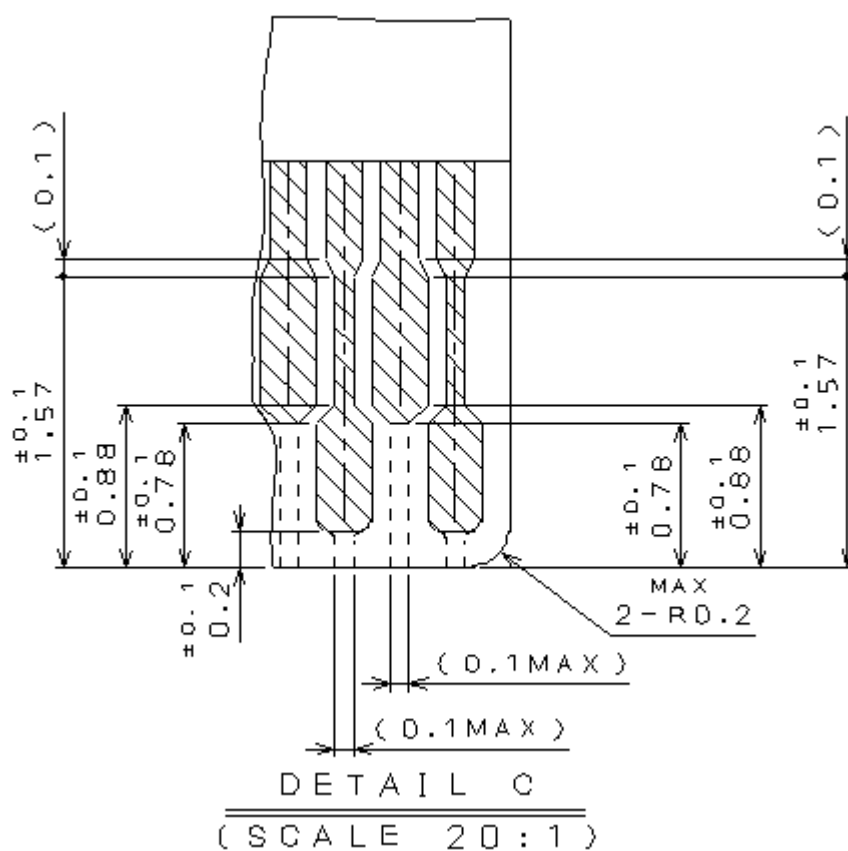
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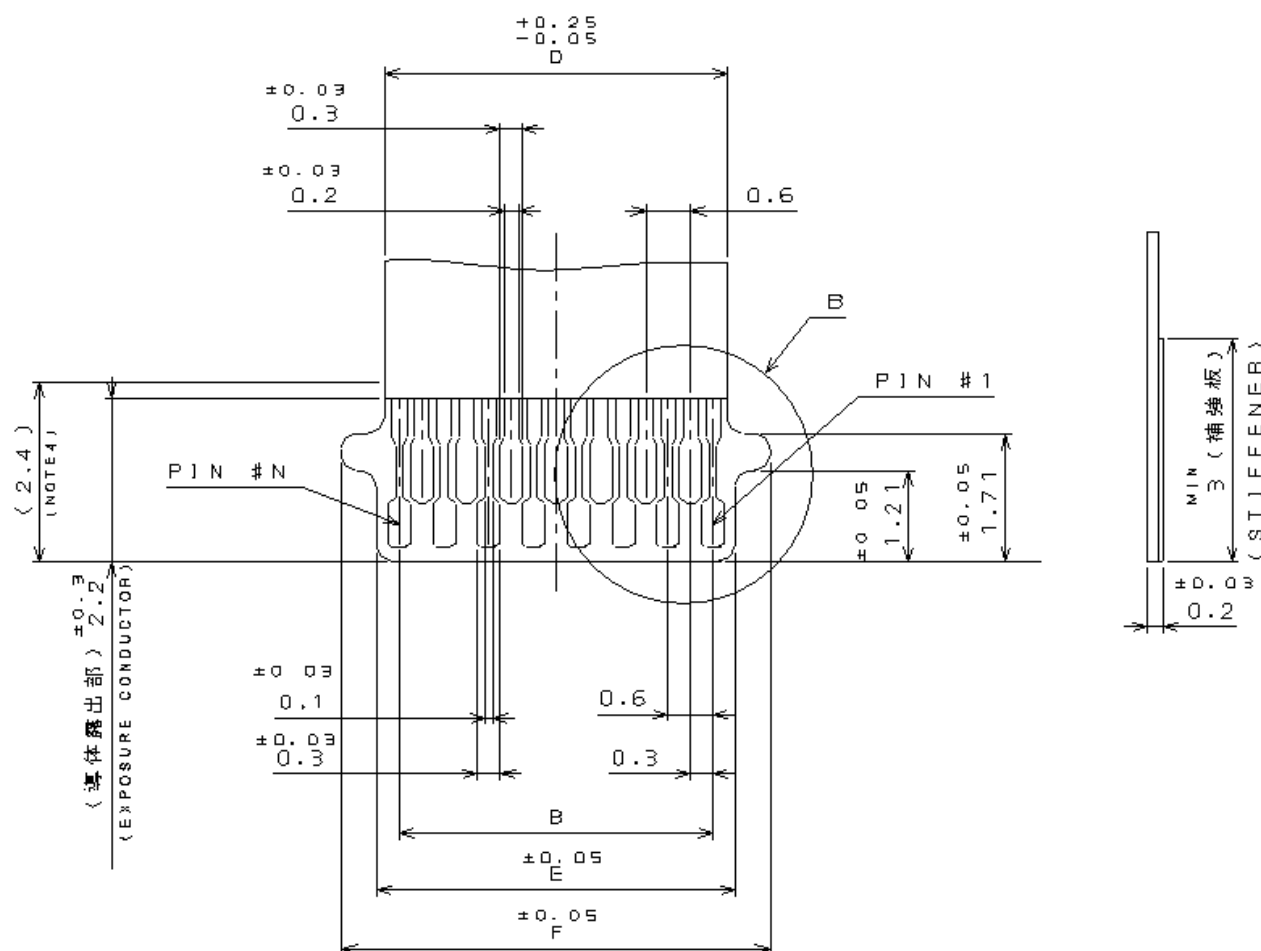


### FPC without guides

No. of Contacts	Dim. E
11	3.6
13	4.2
15	4.8
19	6.0
21	6.6
27	8.4
31	9.6
33	10.2
35	10.8
39	12.0
41	12.6
45	13.8
51	15.6
61	18.6

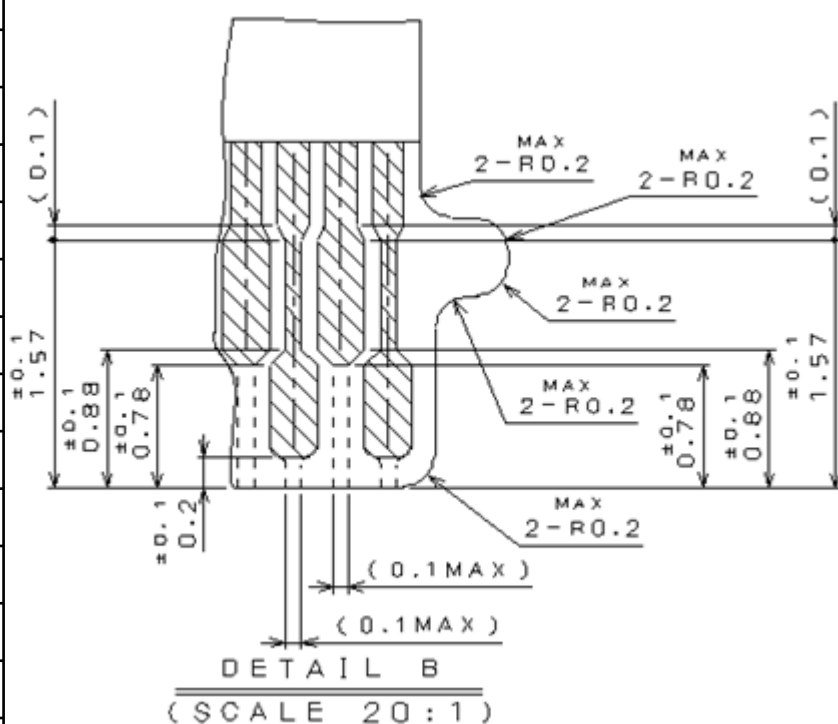


Unit: mm



FPC with guides

No. of Contacts	Dim. D	Dim. E	Dim. F
11	3.4	3.6	4.54
13	4.0	4.2	5.14
15	4.6	4.8	5.74
19	5.8	6.0	6.94
21	6.4	6.6	7.54
27	8.2	8.4	9.34
31	9.4	9.6	10.54
33	10.0	10.2	11.14
35	10.0	10.8	11.74
39	11.8	12.0	12.94
41	12.4	12.6	13.54
45	13.6	13.8	14.74
51	15.4	15.6	16.54
61	18.4	18.6	19.54



Unit: mm

Unit: mm

SJ Drawing	SJ111993
Packaging Drawing	SJ111994
Specifications	JACS-10724-1
Handling Instructions	JAHL-10724-1

Product Marketing Division  
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