

## INTRODUCTION



# 0.25mm (.010") Pitch Easy-On™ FPC Connector

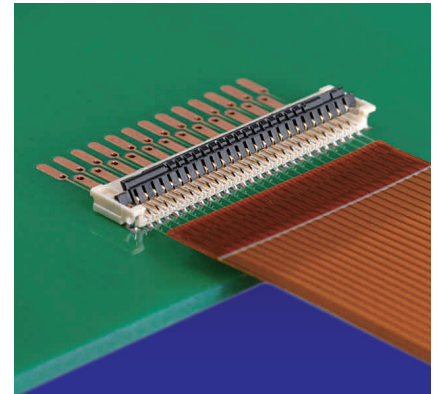
Molex's new 0.25mm pitch FPC connector offers the smallest overall size in terms of height, depth and length of any FPC connector in the world. This new SMT version saves up to 40% of PCB space compared to 0.30mm pitch versions.

The connector includes spring contacts that enable the FPC to be inserted without having the cable pads touch the terminal. This helps avoid any damage or wear to the FPC contact area. The spring contacts also help ensure electrical contact is maintained even if the cable is pulled up or down.

### Specifications:

- Current: 0.2A
- Voltage: 50V
- Contact Plating: Gold
- Contact Resistance :  
*Odd terminals*: 80 milliohms max.  
*Even terminals*: 50 milliohms max.
- Insulation Resistance: 50 Megohms min.
- Dielectric Strength: 150V AC
- Housing/Actuator: Glass-filled heat-resistant plastic, halogen free
- Flammability: UL 94V-0

## Series 502078 Right Angle, SMT Bottom Contact, ZIF 1.00mm (.039") Height Halogen-Free Material



### Features

- Smallest combined depth, height and length available

- Spring feature on odd and even contacts

- Actuator-to-housing friction lock

- Similar cable layout and tolerance as 0.30mm pitch

- Solder tails within the footprint area

### Benefits

- Space savings for mobile device applications

- Higher contact and cable retention reliability

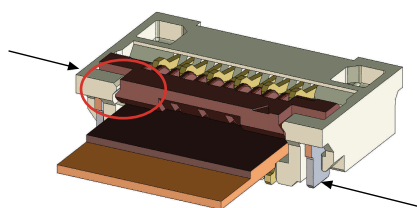
- Increased mating retention and an audible "click" when mating

- Industry standard and cost competitive

- Space savings and stability

## FRICTION LOCK AND SOLDER TAB FEATURES

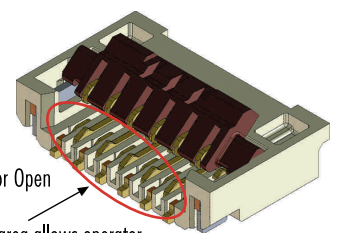
Actuator-to-housing friction lock provides secure cable retention



Front solder tab (nail) under housing provides space savings and stability

Actuator Open

Large open area allows operator to ensure cable is properly placed



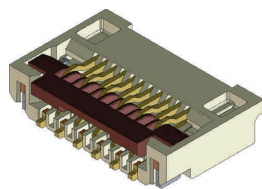
## MARKETS AND APPLICATIONS

- Mobile phone
- PDA
- Other compact, mobile devices





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**Series 502078**  
**Right Angle, SMT**  
**Bottom Contact, ZIF**  
**1.00mm (.039") Height**  
**Halogen-Free Material**

| Order No.   | Circuits | Description                        | PCB Mounting | Height | Depth  | Plating |
|-------------|----------|------------------------------------|--------------|--------|--------|---------|
| 502078-1710 | 17       | ZIF, Easy-On™ Actuator, Front Flip | Bottom       | 1.00mm | 2.75mm | Gold    |
| 502078-2110 | 21       |                                    |              |        |        |         |
| 502078-2510 | 25       |                                    |              |        |        |         |
| 502078-3310 | 33       |                                    |              |        |        |         |
| 502078-3910 | 39       |                                    |              |        |        |         |
| 502078-5110 | 51       |                                    |              |        |        |         |

Note: FPC cable should have gold contacts

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