## **FPS Series**

### **Specifications**

 $\begin{array}{ll} Insulation \, Resistance: & 1,000 M\Omega \, min. \, at \, 500 V \, DC \\ With standing \, Voltage: & 500 V \, AC \, rms \, for \, 1 \, minute \\ Contact \, Resistance: & 100 m\Omega \, at \, 1 mA \, / \, 20 mV \, max. \end{array}$ 

Voltage Rating: 250Vrms AC Current Rating: 0.5A

Operating Temp. Range: -25°C to +85°C Coplanarity: ≤ 0.1mm

Mating Cycles: 10,000 (office environment)

#### Materials and Finish

Insulator: LCP glass filled Contacts: PB, t = 0.23

Contact area = Ni-Au

Solder Tails = NI-SnCu

Write Protection: PB, t = 0.18 Ni-Au
Card Detector: PB, t = 0.15, Ni-Au
Ejector: LCP glass filled

#### Features

- Connector for both card types (SD and MMC card)
- Possibility of application specific ejector
- Card detector and simple eject mechanism (optional)
- ⇒ Tape and Reel packaging (500 pcs / reel)

## Part Number (Details)

FPS 009 - 300 \* - BL

Series No.

**Number of Contacts** 

Design No.

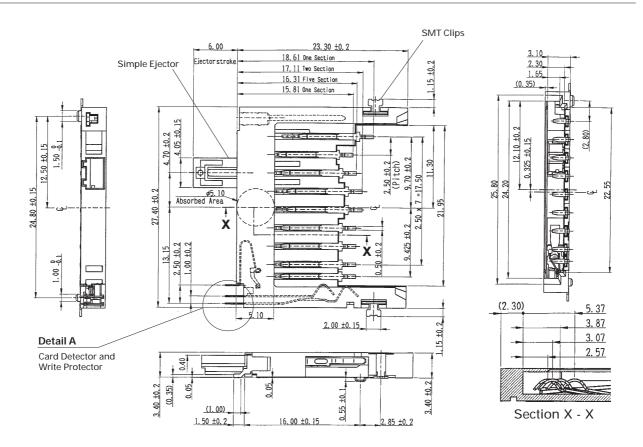
1 = with Simple Ejector

2 = without Simple Ejector



- Easy operation by manual insertion / extraction
- ⇒3 step sequential contacting design
- ⇒Write protection switch (optional)

#### Outline Dimensions for FPS009-3001-BL and FPS009-3002-BL



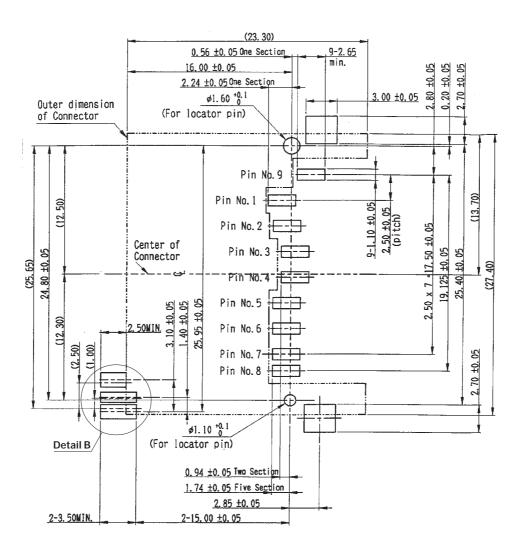
#### **Function Table**

Part Number	Simple Ejector	Card Detector	SMT Clips	Write Protection Switch
FPS009-3001-BL	Yes	Yes	Yes	Yes
FPS009-3002-BL	-	Yes	Yes	Yes



Recommended PCB Layouts FPS009-3001-BL and FPS009-3002-BL

Top View



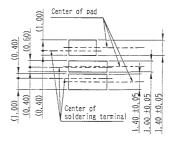
#### Detail A (Card Detector / Write Protector)

FPS009-3001-BL and FPS009-3002-BL

# Card detection Common terminal Write protection

#### Detail B (PCB Layouts)

FPS009-3001-BL and FPS009-3002-BL



#### Circuit Diagram for Switch

