

## Specifications

Insulation Resistance: 1,000MΩ min. at 500V DC  
 Withstanding Voltage: 500V AC rms for 1 minute  
 Contact Resistance: 100mΩ at 1mA / 20mV max.  
 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)

## Part Number (Details)

FPS 009 - 300 \*

Series No.

Number of Contacts

Design No.

6 Combination Options  
(see function table below):

## Materials and Finish

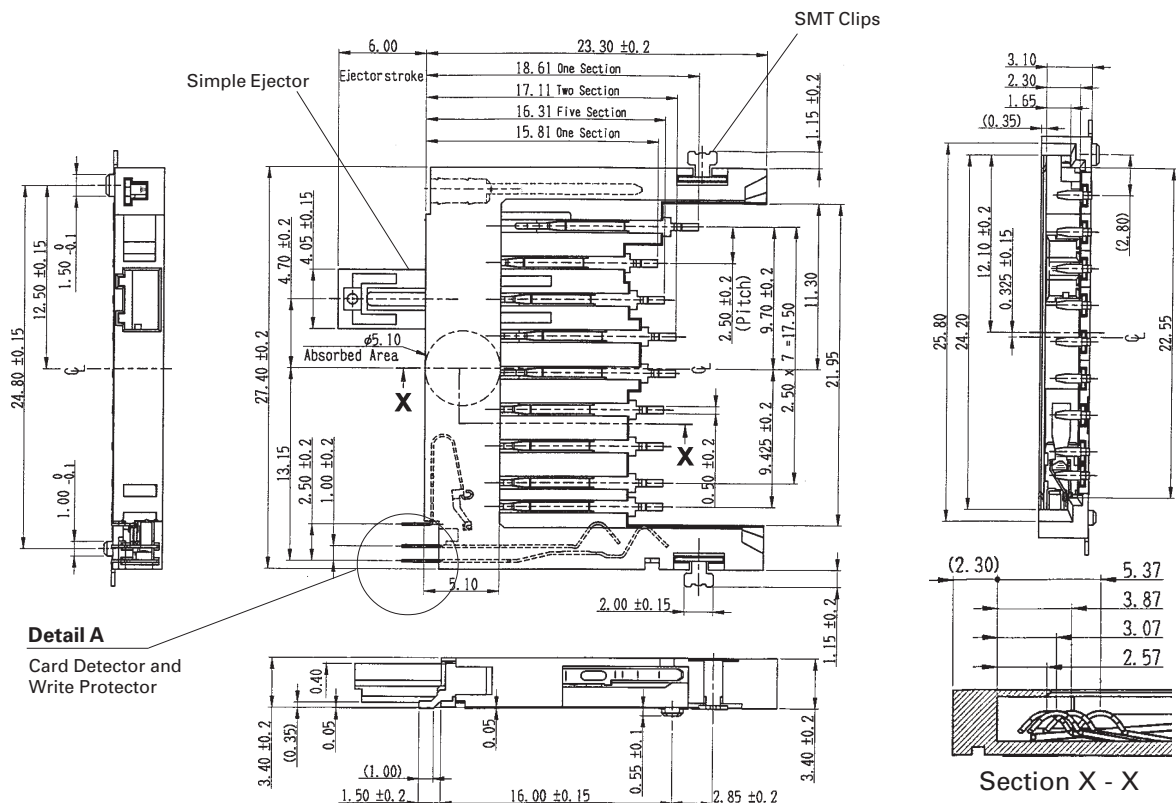
Insulator: LCP glass filled  
 Contacts: PB, t = 0.23  
 Contact area = Ni-Au  
 Solder tail = Ni-SnPb  
 Write Protection: PB, t = 0.18 Ni-Au  
 Card Detector: PB, t = 0.15, Ni-Au  
 Ejector: LCP glass filled



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

## Outline Dimensions for FPS009-300\*



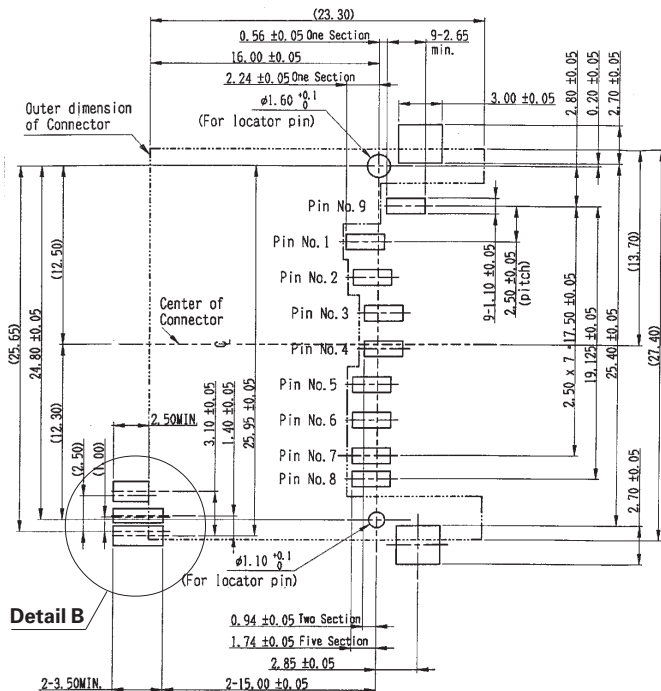
## Function Table

Part Number	Simple Ejector	Card Detector	SMT Clips	Write Protection Switch
FPS009-3000	Yes	Yes	-	Yes
FPS009-3001	Yes	Yes	Yes	Yes
FPS009-3002	-	Yes	Yes	Yes
FPS009-3003	-	-	Yes	-
FPS009-3004	-	-	Yes	Yes
FPS009-3005	Yes	-	Yes	-

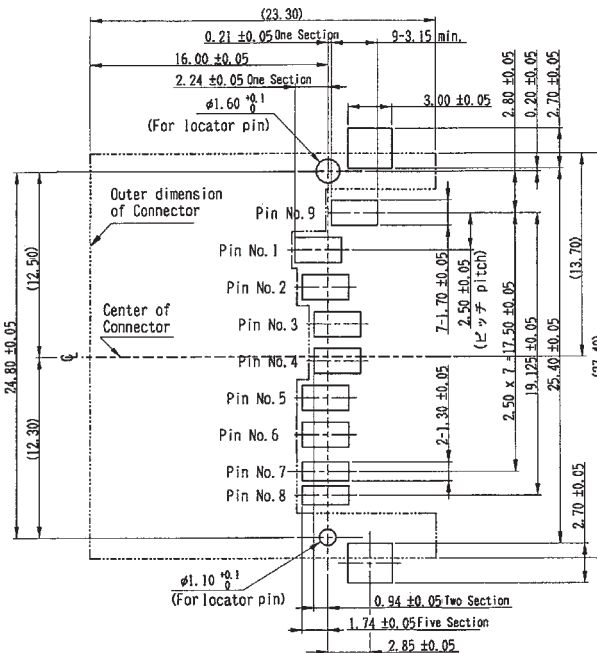
## Recommended PCB Layouts

Top View

FPS009-3000, FPS009-3001, FPS009-3002 and FPS009-3004



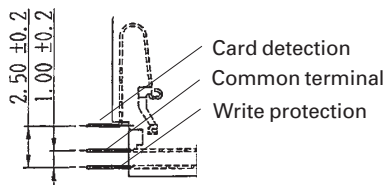
FPS009-3003 and FPS009-3005



Detail A (Card Detector / Write Protector)

Detail B (PCB Layouts)

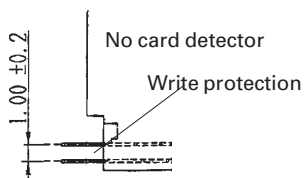
FPS009-3000, FPS009-3001 and FPS009-3002



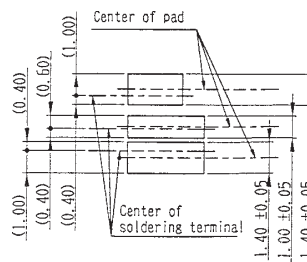
FPS009-3003 and FPS009-3005

No card detector or write protection switch

FPS009-3004



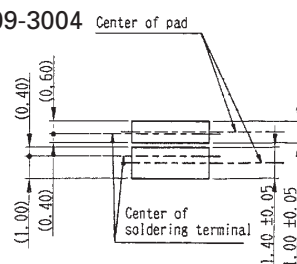
FPS009-3000, FPS009-3001 and FPS009-3002



FPS009-3003 and FPS009-3005

No soldering terminals with these types

FPS009-3004



### Circuit Diagram for Switch

