

Specifications

Insulation Resistance:	1,000M Ω min. at 500V DC
Withstanding Voltage:	500V AC rms for 1 minute
Contact Resistance:	100m Ω at 1mA / 20mV max.
Voltage Rating:	250Vrms AC
Current Rating:	0.5A
Operating Temp. Range:	-25°C to +85°C
Coplanarity:	$\leq 0.1\text{mm}$
Mating Cycles:	10,000 (office environment)

Materials and Finish

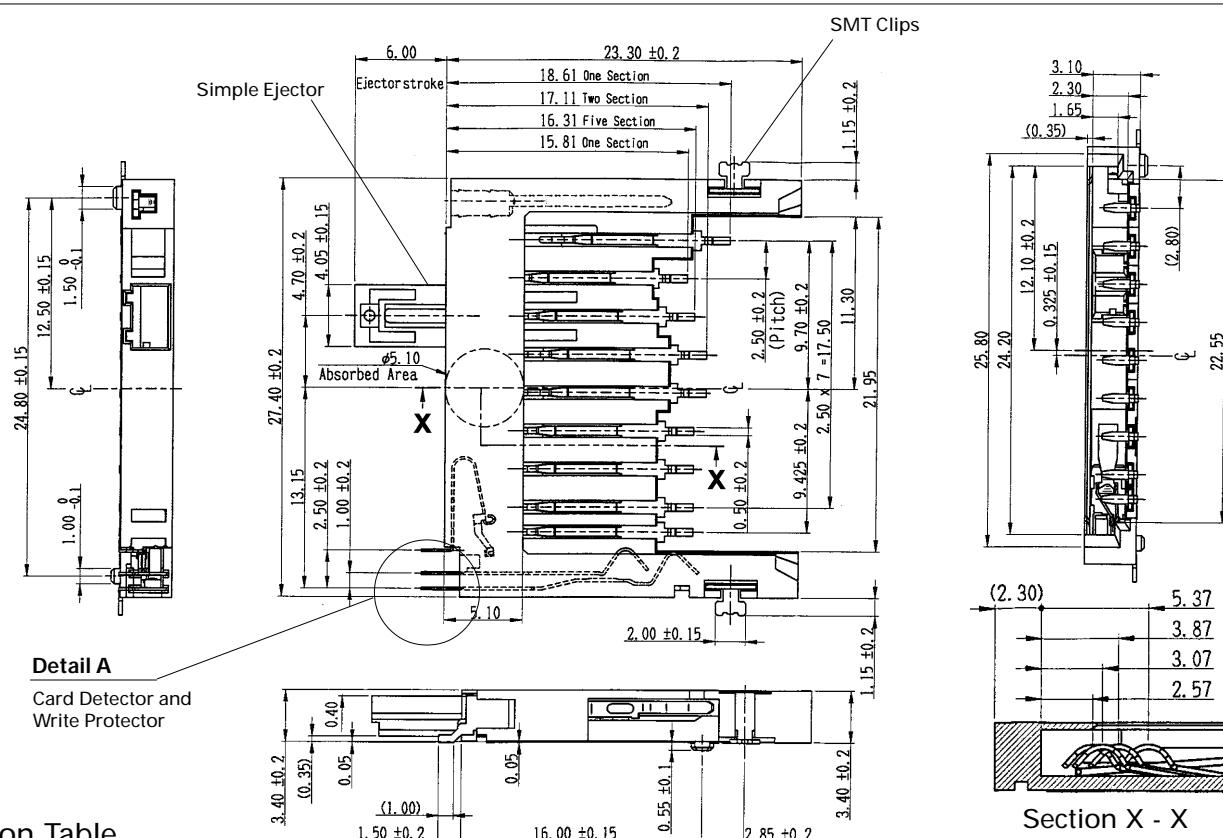
Insulator: LCP glass filled
 Contacts: PB, t = 0.23
 Contact area = Ni-Au
 Solder tail = NI-SnPb
 Write Protection: PB, t = 0.18 Ni-Au
 Card Detector: PB, t = 0.15, Ni-Au
 Ejector: LCP glass filled

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



Outline Dimensions for EPS009-300*



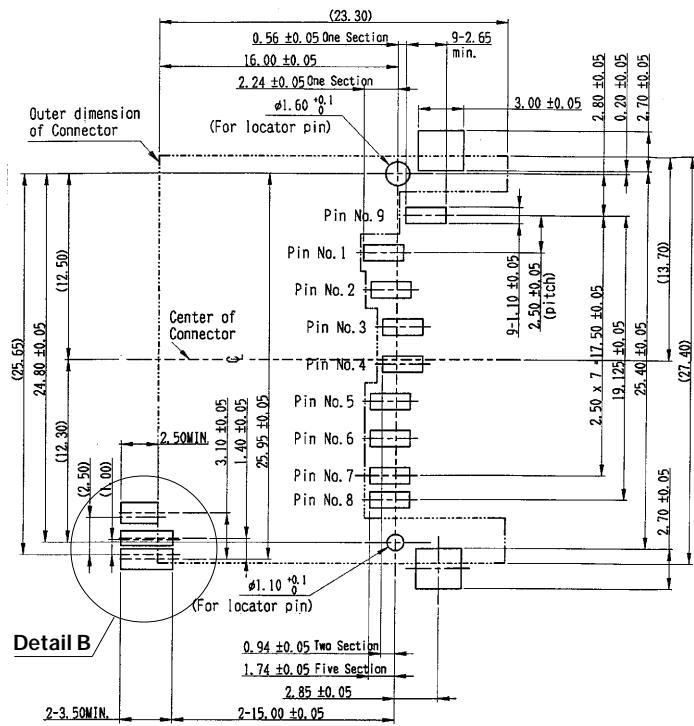
Function Table

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	-

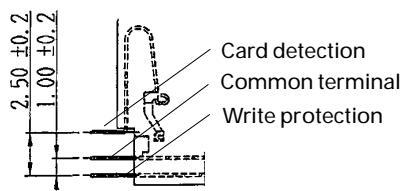
Applicable Dimensions (Reference Only)

Recommended PCB Layouts

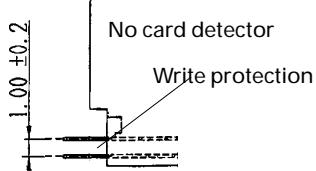
Top View

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

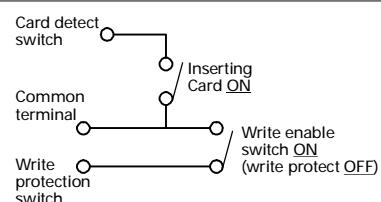
Detail A (Card Detector / Write Protector)

FPS009-3000, FPS009-3001
and FPS009-3002FPS009-3003
and
FPS009-3005No card detector or
write protection switch

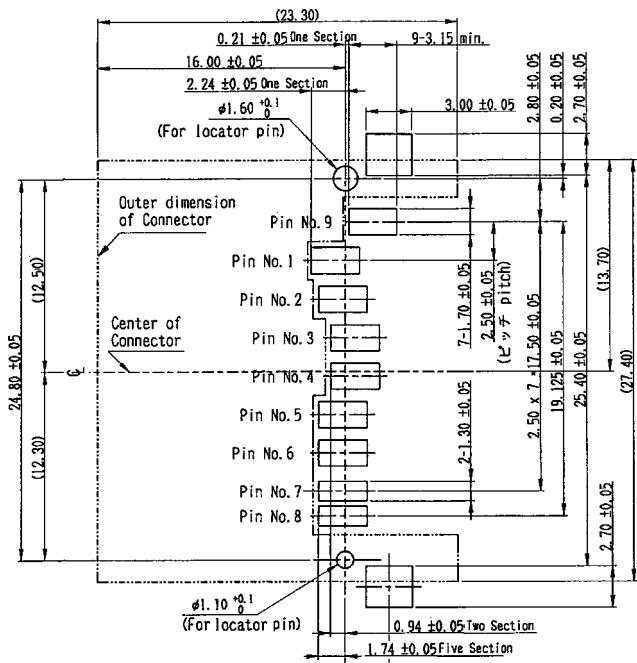
FPS009-3004



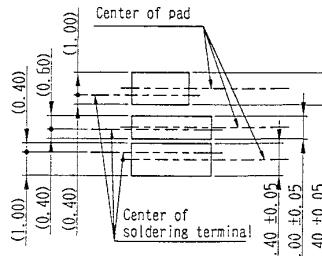
Circuit Diagram for Switch



FPS009-3003 and FPS009-3005



Detail B (PCB Layouts)

FPS009-3000, FPS009-3001
and FPS009-3002

FPS009-3003 and FPS009-3005

No soldering terminals
with these types

FPS009-3004

