

## SF6 SERIES CONNECTORS

### Connector with Ejector for IC Card



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SF6 Series is designed for ETC vehicle-mounted units. The product can withstand environmental conditions such as vibration and shock, and can also maintain stable contact performance under harsh environmental conditions. In addition, the connector has a robust structure to withstand repeated insertion and removal.

Note: This connector is also available with a solenoid, JAE Part SF6U010S9B. Please contact JAE for further details

### GENERAL SPECIFICATIONS

- No. of contacts: 8+2 (card detection switch)
- Contact resistance: Signal 100 m ohm max.  
Switch 1 ohm max. (initial)
- Dielectric withstanding voltage:  
Signal AC500Vr.m.s (per minute)  
Switch AC100Vr.m.s (per minute)
- Rated current: Signal 10uA to 1A  
Switch 0.1 to 10mA
- Insulation resistance:  
Signal 1000 M ohm min.  
Switch 100 M ohm min.
- Lifetime: 200,000 cycles

### FEATURES

- Super thin 4.8mm height
- Compliant with ISO 7816 Standard Smart Card (IC card)
- Employs ZIF landing structure and achieve an IC card insertion/removal endurance of more than 200,000 cycles.
- Equipped with a switch to detect IC card insertion.
- Equipped with an eject structure for one-touch IC card ejection.
- Feeling that lets you know IC card insertion is completed.
- Comes with mating card lock structure to prevent card removal due to vibration or shock when the IC card is inserted.
- Ground terminals are attached to nuts to anchor on the board as a measure against static electricity.
- Employs a structure to prevent unnecessary IC card protrusion at IC ejection and sets the protruding length to 20mm – 50mm.

Dimensions in mm (inches).



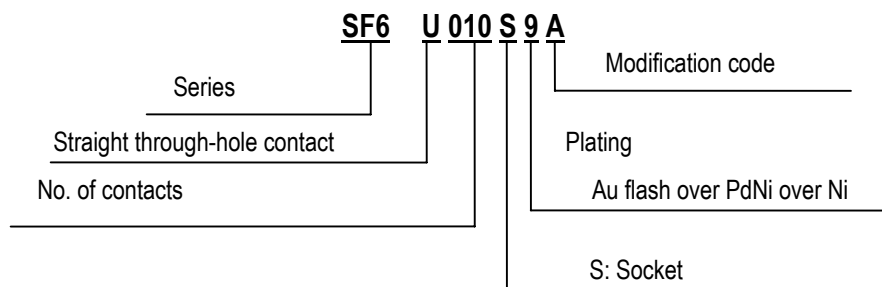
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#### MATERIALS AND FINISHES

Components	Materials and finishes
Contact	Copper alloy/ Contacting portion: Au flash over PdNi over nickel Terminal portion: SnPb plating
Insulator	Glass filled LCP
Cover frame	Stainless steel
Slider	Stainless steel
Switch	Au plating on terminal portion
Button	Glass filled nylon
Eject bar	Stainless steel
Eject plate	Stainless steel
Lock plate	Stainless steel
Spring	Stainless steel
Nut	Steel / Nickel

#### ORDERING INFORMATION



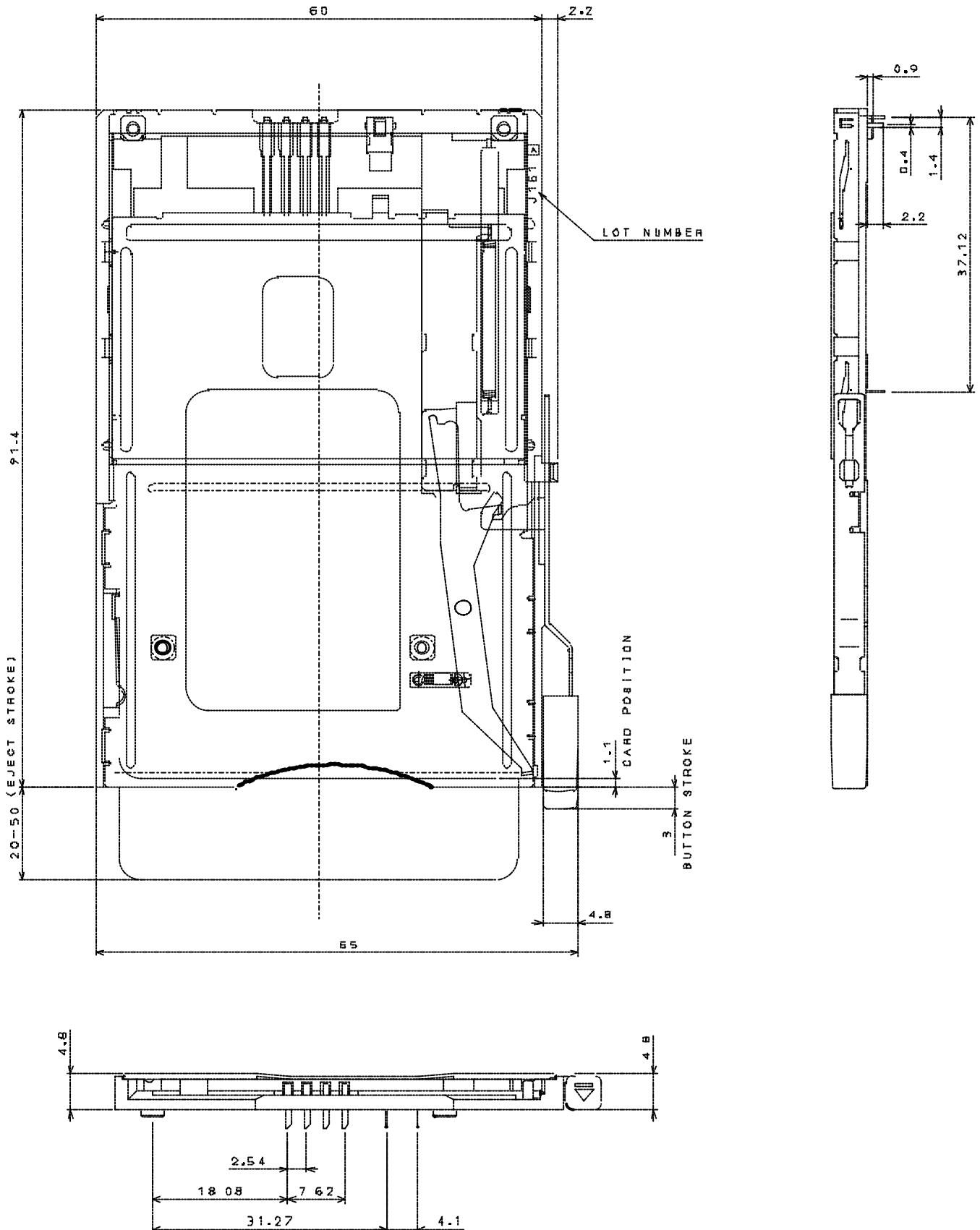
Part Number	Drawing No.
SF6U010S9A	SJ036109
Specification	JACS-1616

Dimensions in mm (inches).



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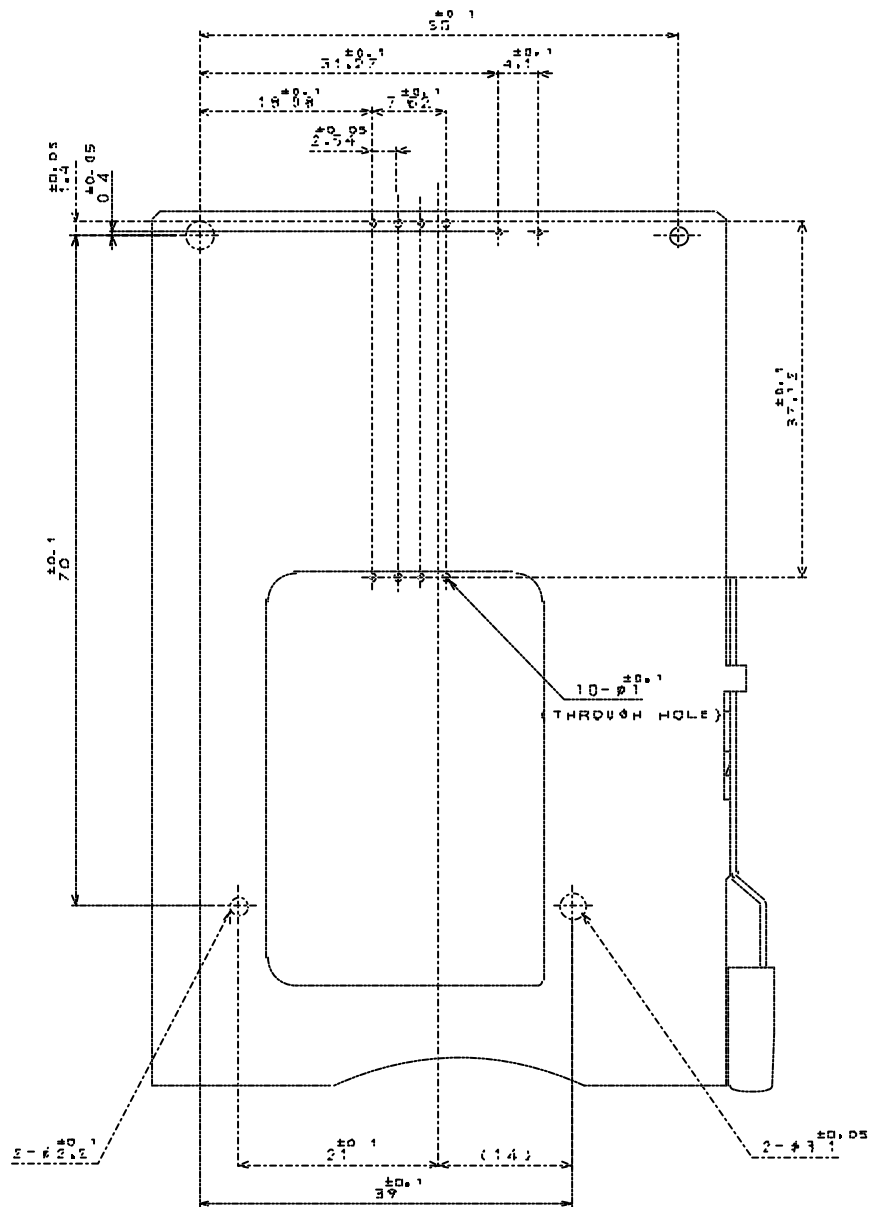


Dimensions in mm (inches).



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P.C.B. THROUGH HOLE LOCATION (REF.)  
基板スルーホールロケーション(参考)

Dimensions in mm (inches).



# Mouser Electronics

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