

MOLDED SWITCH

RA-903

Ultra Miniature SMD

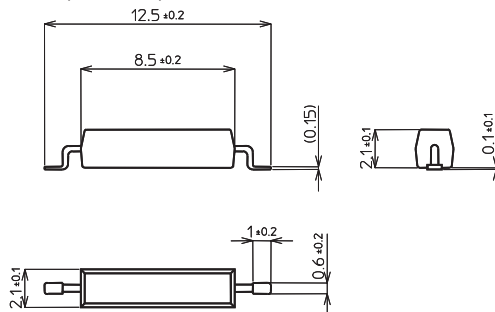
■ GENERAL DESCRIPTION

The RA-903 is a molded switch made by molding the glass tube of ORD213 with resin and processing the leads. It ensures ease of handling while maintaining the excellent features of ORD213 and its light weight.

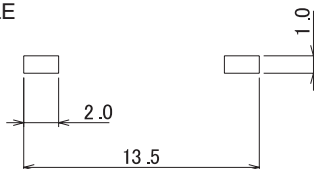
■ FEATURES

- (1) It has a gull wing shape lead suitable for SMT.
- (2) Automatic mounting of this component by tape and reel feed is possible.
- (3) It features enhanced shock resistance characteristics due to resin mold that protects the glass tube.
- (4) Ultracompact and light weight

■ EXTERNAL DIMENSIONS (Unit: mm)



■ PAD LAYOUT SAMPLE



■ APPLICATIONS

- Automotive electronic devices
- Control equipment
- Communication equipment
- Measurement equipment
- Household appliances

■ SPECIFICATION

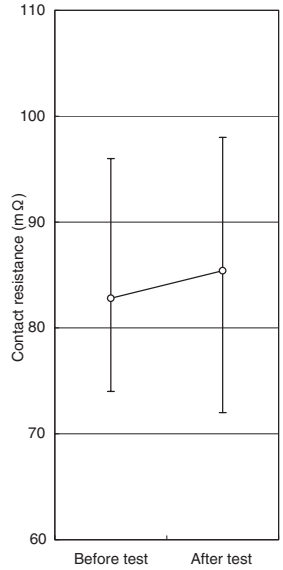
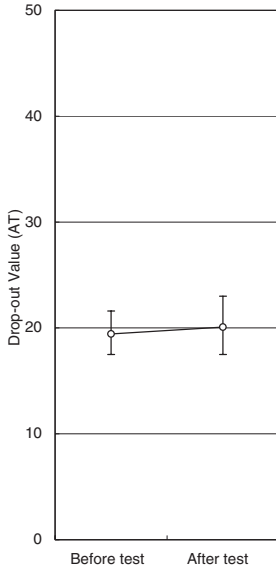
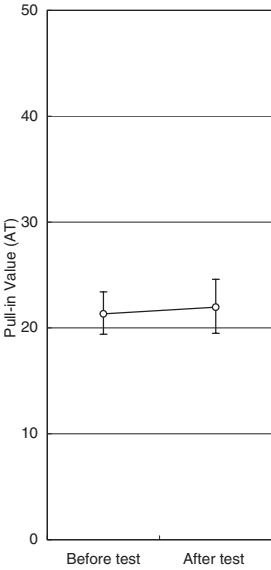
Contact form	1A
Pull-in value (PI)	16~46AT
Drop-out value (DO)	10AT (Min.)
Contact resistance (CR)	200m Ω (Max.)
Contact rating	1W (Max.)
Maximum switching voltage	24V
Maximum switching current	0.1A
Maximum carry current	0.3A
Breakdown voltage	150V (Min.)
Insulation resistance	1 \times 10 ⁹ Ω (Min.)
Operate time	0.3ms (Max.)
Bounce time	0.3ms (Max.)
Release time	0.05ms (Max.)
Shock resistance	50G—11ms
Vibration resistance	50G (10~2000Hz)
Operating temperature range	—40~125 $^{\circ}$ C
Storage temperature range	—50~125 $^{\circ}$ C

■ PULL-IN VALUE TABLE

Model No.	1	2	3	4	5	6
Pull-in value (AT)	16~29	18~32	20~34	22~36	24~42	28~46

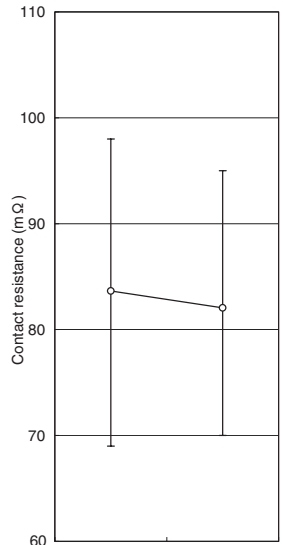
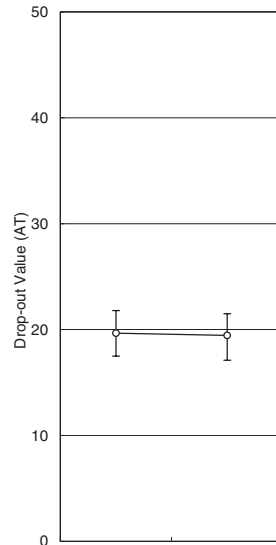
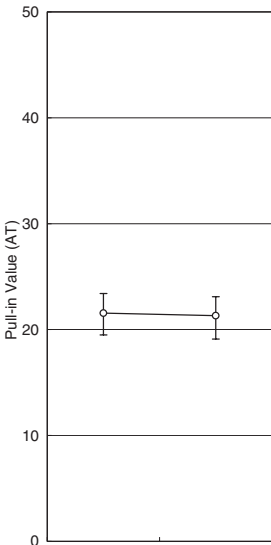
■ ENVIRONMENTAL CHARACTERISTICS

(1) Temperature cycle (-55℃ ~ +125℃)

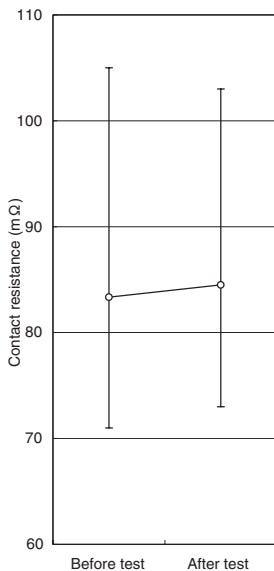
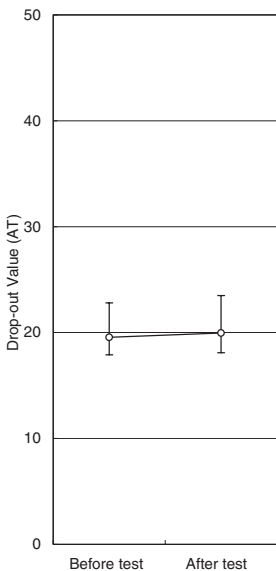
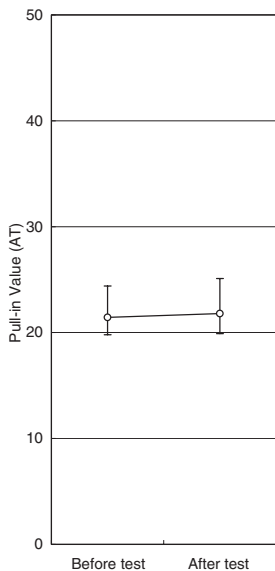


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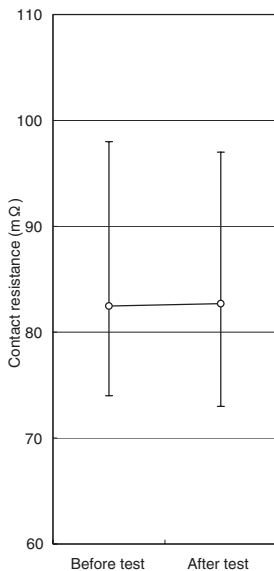
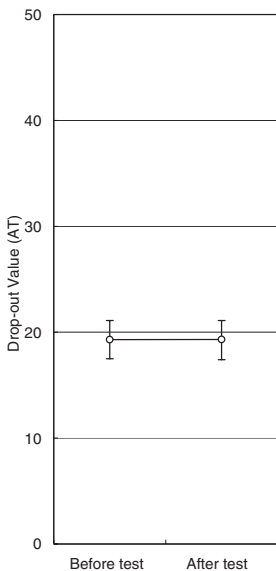
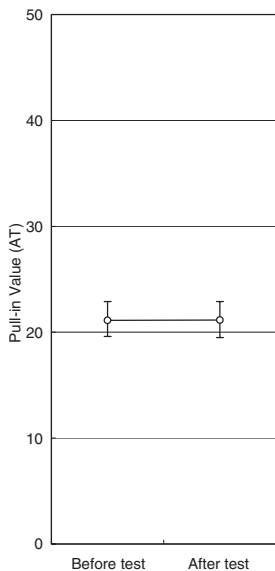
(2) Temperature and humidity cycle (-10℃ ~ +65℃ 80% ~ 98%)



(3) High temperature storage test (125°C 500H)

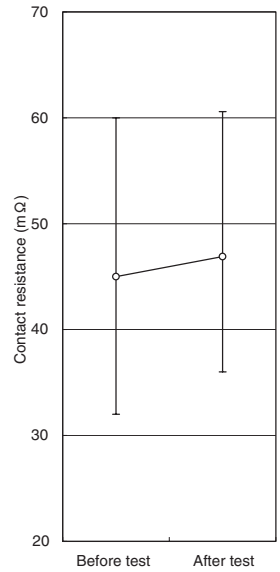
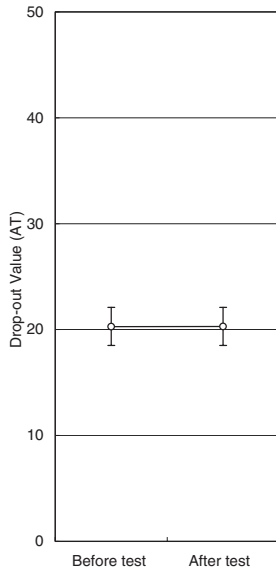
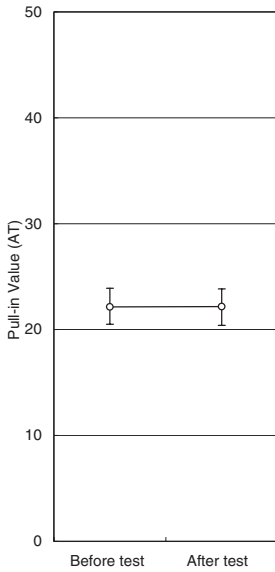


(4) Low temperature storage test (-40°C 500H)



(5) Shock test

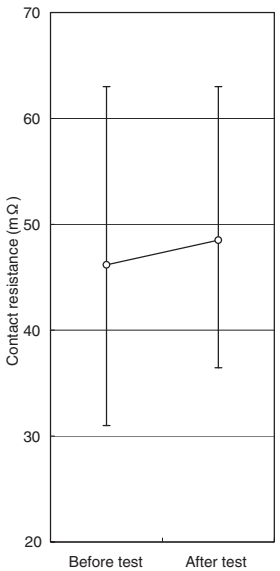
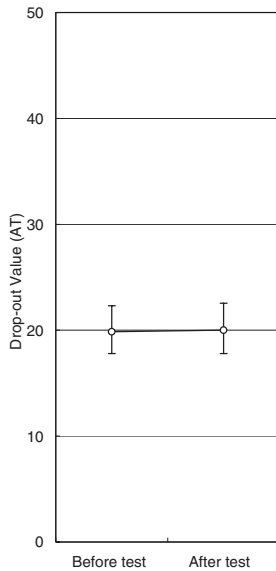
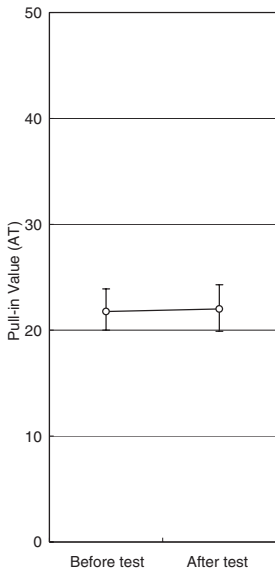
(50G 11msec)



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(6) Vibration test

(50G 10~2000Hz)



(7) Shock Resistance test

(ϕ 10mm steel ball, free fall impact height 230mm)

