

SWITCH FUNCTION

克重 650 ± 100

SPECIFICATIONS

MECHANICAL LIFE: 30,000 make-and-break cycles. CONTACT RESISTANCE: 10m Ω max. initial @ 2-4VDC

100mA for both silver and gold plated contacts.

INSULATION RESISTANCE: 1,000M Ω min. DIELETRIC STRENGTH; 1,000 V RMS@sea level. OPERATING TEMPERATURE: -30°C to 85°C.

MATERIALS

CASE: Dially phthalate (DAP) (UL94v-0).

ACTUATOR: Nylon, black std. BUSHING: Brass, nickel plated.

HOUSING: Stainless Steel.

SWITCHE SUPPORT: Brass, Tin plated.

TERMINAL/CONTACT:Brass,Silver or gold plated.

RATING:

R: 0.4 Volt-Amps(VA) max. @20V max.(AC or DC)

Q: 2Amps @250VAC

5Amps @120 VAC or 28 VDC

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符號	原尺寸	修改後尺寸	變更日期	SCALE (比例): 3:2	TITLE 圖 名	Miniature Rocker & Pa	addle Switches	SIZE 圖紙	A4
(A) (B)				TOLERANCE (公差): 0.00 mm ± 0.25mm	DWG NO. 圆 號			UNIT 單位	inch mm
Ö				0.0 mm ± 0.40mm ANGULAR : ± 2.54 mm	REV. 版本	日 期	28 - 2004	SHEET 張數	1 of 1
				FILE NAME :	CHECKED BY 審核	RICHARD	DRAWN BY 製	BLUE	3

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1. Style

This specification describes "Miniature Rocker & Paddle Switches", mainly used as signal switch of electric devices, with the general requirements of mechanical and electrical characteristic.

Operating Temperature Range : -30 $^{\circ}\text{C-+85}^{\circ}\text{C}$.

2. Current Range:

2.1 Silver Plating Standard:

	Rat ing	
Q=Silver	Fixed Terminal: Silver plated over copper alloy. Movable contact: Silver plated over copper alloy.	
C=Gold over silver	Fixed Terminal: Copper alloy with silver plated over gold plate. Movable contact: Copper alloy with silver plated over gold plate. Fixed Terminal: Copper alloy with silver	5Amps @120VAC or
S=Silver, tin-lead	plated ,tin-lead. Movable contact: Silver plated over copper alloy.	28VDC. 2Amps @250VAC.
K=Gold over silver tin-lead	Fixed Terminal: Copper alloy with silver plated over gold plate, tin-lead. Movable contact: Copper alloy with silver plated over gold plate.	

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2.2 Gold Plating Standard:

	Rat ing		
R=Go Id	Fixed Terminal: Copper alloy with gold plate over nickel plate. Movable contact: Copper alloy with gold plate over nickel plate.	0.4 VA Max.	
G=Go ld,tin-lead	Fixed Terminal: Copper alloy with gold plated over nickel plate, tin-lead. Movable contact: Copper alloy with gold plated over nickel plate.	e20VAC or DC Max.	

3.Type of Actuation: Miniature Rocker & Paddle Switches.

4. Test Sequence:

	ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS
	1		without and out pressure &	There shall be no defects that affect the serviceability of the product.
ELECTRIC PE	2		@2-4VDC 100mA. For both silver and gold plated contacts.	10mΩ Max
PERFORMANCE	3	Insulation Resistance	Measurements shall be made following application of 1000 V/DC 100mA potential across terminals and cover.	1000MΩ min/1000V
	4	Die lectric Withstanding Voltage	1500 VAC(50Hz or 60Hz) shall be applied across terminals and cover for 1 minute.	

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	ITEM	DESCR IPT ION	TEST CONDITIONS	REQUIREMENTS
	5	Solder Heat Resistance	seconds	①Shall be free from pronounced backlash and falling-off or breakage terminals ②As shown in item 2~4.
MECHAN ICAL PERFPRNANCE	6	Vibration	Shall be vibrated in accordance with Method 201A of MIL-STD-202F © Frequency: 10-55-10Hz in 1-min/cycle. © Direction: 3 vertical directions including the directions of operation ③ Test time: 2 hours each direction.	As shown in item 2-4
PRMANCE	7	Shock	Shall be shocked in accordance with Method 213B condition A of MIL-STD-202F ①Acceleration; 5kg ②Action time: 11±1m seconds. ③Testing Direction: 6 sides. ④Test Cycle: 3 times in each direction.	As shown in item 2-4
	8	Actuation Force	MODEL-1305N MECHANICAL TEST 500gram \ 1000gram \ 2000gram.	At for test the force. Force: 300grams±50 grams.
OPERATING LIFE	9	Operating Life	Measurements shall be made following the test forth below: ①5A,120VAC resistive load—silver plated. ② Rate of Operation: 6-8operation cycles per minute. ③ Electronics Life Test: 6,000 cycles. ④ Mechanical Life Test: 40,000 cycles.	10mΩ Max. ② Insulation Resistance:

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	ITEM	DESCR IPT ION	TEST CONDITIONS	REQUIREMENTS
	10	Resistance Low Temperature	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for 1 hour before the measurements are made: ①Temperature:-40±3°C ②Time:96 hours.	As shown in item 2~4.
HUMIDI	11	Resistance High Temperature	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for an hour before the measurements are made: ①Temperature:85 ± 2°C ②Time:96 hours.	
HUMIDITY RESISTANCE	12	Resistance Humidity	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for an hour before the measurements are made: ①Temperature:40 之°C ②Relative Humidity:90~95% ③Time:96 hours.	Resistance:
	13	The Salt Testing	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for an hour before the measurements are made: ①Temperature:35 世°C ②The ratio of salt-water:5% ③The spray amout of salt-water: 1~2 ml/h. ④ Time:48 hours.	The testing standard

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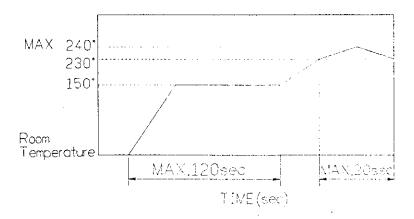
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5. SOLDERING CONDITIONS:

Automation Soldering



Manual Soldering

Soldering Temperature	Max.350°C	
Cont inuous So Ider ing Time	Max. 3 seconds	

Precautions in Handling

Care should be exercised so that flux from the upper part of the printed circuit board does not adhere to the switch.