



Datasheet

RS PRO Sub-Miniature Pushbutton Switches

Stock number: 820-7565



Package Contain:

1x Nut 1x Locking Washer 1x Splash Proof O-Ring

Specifications:

Switch Type: Pushbutton Poles/Throws: SPST

Switch Functions: OFF-MOM

ELECTRICAL CHARACTERISTICS

Contact Rating: 500 mA 48 V ac - 200 mA 50 V dc - 200 mA 250 V ac

Electrical Life: 500,000 make-and-break cycles at full load

Contact Resistance: 50m-ohms max.

Insulation Resistance: 1GΩmin @ 500 V dc

Dielectric Strength: 1500 V ac RMS
Operating Temperature: -30°C to +85°C

Specifications:

1. Style :

This specification describes "Snap-Acting Pushbutton Switches", mainly used as signal switch of electric devices, with the general requirements of mechanical and electrical characteristic.

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

2. Current Range:

2.1 Silver Plating Standard:

	Rating		
C=Gold over silver	Fixed Terminal : Copper alloy with silver plated over gold plate. Movable contact : Copper alloy with silver plated over gold plate.	125mA @125VAC Max.	

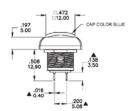
3. Type of Actuation: Snap-Acting Pushbutton Switches.

4. Test Sequence:

ELECTRIC PERFORMANCE	ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS	
	1		By Visual Examination check	There shall be no defects that affect the serviceability of the product.	
	2	Contact Resistance	To be measured between the two terminals associated with each switch pole.	50mΩ Max.	
	3	Insulation Resistance	Measurements shall be made following application of 500 V/DC 100mA potential across terminals and cover for 1 minute.	1GΩ min/500V.	
	4		⊙1000 VAC(50Hz or 60Hz) shall be applied across terminals and cover for 1 minute.(for bushing plastic material) ⊚1500 VAC for bushing metal material.	There shall be no breakdown or flashover.	

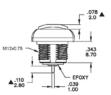
P	ITEM	DI	ESCRI	PTION	V	TEST CONDITIONS		REQUIREMEN				
MECHANICAL PERFPRMANCE	5	Act	uatio	on For	ce	MODEL-1305N MECF 500gram • 1000gra OFF TO ON Total	am • 2000gram.	①At for test the force. Force: 2N-5N. ②Total Travel: 1.5 mm±0.25 mm				
OPERATING LIFE	6	Оре	Operating Life			200mA, 50VDC resistive load— gold over silver plated .		⊕Electronics L Test: As shown i 3-4. @Mechanical Li Test: As shown i 2-4.	n item fe			
HUMIDITY	7	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: -30±3°C. ②Time: 96 hours.		As shown in ite				
1				ITEM		DESCRIPTION	TEST COND	ITIONS	RE	QUIREMENTS		
RESISTANCE	8	Res T		9	Resi	stance Humidity	Following the tes below the sample s normal temperatur conditions for an measurements are ©Temperature: 40: ©Relative Humidi	hall be left in e and humidity hour before the made: ±2°C.	©Cont Resist Max. ©Insu	act ance:50mΩ alation ance:1GΩ min		
		HUMIDITY RESISTANCE				10	The	e Salt Testing	②Time: 96 hours. Following the tes below the sample s normal temperatur conditions for an easurements are ①Temperature: 35: ②The ratio of sa ③The spray amounwater: 1-2 ml/h. ④Time: 48 hours.	hall be left in e and humidity hour before the made: ±2°C. lt-water:5%.	The te based crack,	ying glass
					HSF	The electronic electrical machinery product limits with six big chemical materials.		Cd:100ppm Pb:1000ppm Hg:1000ppm Cr6+:1000ppm PBB、PBDE:1000ppm				
				12	1	Fest of IP 67	Upper side: Protected against temporary immersion (1m below the surfa for a duration of 3	n in water. ace of the water	EN 605 1991+	ing to 29: A1:2000 529:2001		

	ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS	
SOLDER HEAT RESISTANCE	13	Wave Soldering	■ Wave Soldering: ⑤ Soldering Temperature:260±5℃. ⑤ Duration of Solder Immersion: 5 ±1 seconds. Temperature Profile Park:360℃ Park:360℃ Properature © Post 1.6mm in thicknes.	©Shall be free from pronounced backlash and falling-off or breakage terminals. ©As shown in item 2-4.	
	14	Manual Soldering	■ Manual Soldering: ⑤Soldering Temperature: 350°C max. ⑤Duration of Solder Heated: Max 5 seconds. ■ Precautions in Handling ⑥Care should be exercised so that flux from the upper part of the printed circuit board does not adhere to the switch. ⑥Except for washable type do not wash the switch. ⑥Please make sure that there is no flux rose over the surface of the PCB.	©Shall be free from pronounced backlash and falling-off or breakage terminals. ©As shown in item 2-4.	





SPECIFICATIONS
Max. current/voltage rating with resistive load:
500mA 49VAC - 200 mA 50VCC - 200mA 250VAC
INITIAL CONTACT RESISTANCE: 500m mill max
INITIAL CONTACT RESISTANCE: 16 j.mm, at 500VAC
DIELECTRIC STREMOTH: 1,500 VAC max
EACOTRICAL ITEPAT PULL LOADS: 500,000 cycles
PANEL TRICKNESS: 15 mm (050) min. 4 mm (157) max.
107AL TRAVEL 15 mm (050)
CONTACT SOUNCE: 15 mm (050)
CONTACT SOUNCE: 10 min.
MECHANICAL ITEP 1,000,000 cycles.
10ROUE: 15 line max. applied to mit.
SOLDERING: 300 C max. for 5 seconds.





300	W 1 //	ш	PAS6	OFF	MOM	_
EPOXY			Term. Comm.	OPEN	SHORT	
1.00	U	SI	CHEMATIC	OPEN	− ¢	
		SV	MTCH FUN	ICTION		_
.508		П	PART NO.	PART N	AME	QTY
		1	MNU- PA04	M12 X 0.7	5 NUT	-1
\ \		2	MNU-1M09	LOCKING	WASHER	1
		3	FCP-A253	O-RING		1

MATERIALS CASE: Dishly phthalate (DAP)(UL94v-0). CAP: Polyamide 6/8. BUSHING: Glass filled nyllon 6/8. TERMINAL/CONTACTS: Gold over silver plated. RehS & Lead Free

Panel cut-out

SCALE : 2:1 TOLERANCE : 0.00 mm ± 0.25mm 0.0 mm ± 0.40mm ANGULAR : ± 5°

POS.1 POS.2

Model No.