SMR·SMRR^{7000C}_{8000C}

Washable

Hyper-Miniature Dip Rotary Switches(7.5mm sq.) [Surface Mount]



RoHS Compliant

■ Features -

- 1. Hyper-miniature Size(7.5mm sq.)

 Designed for high density mounting.
- 2. Process Sealed
- 3. Gold Plated Contacts
- 4. Clearly Visible Legends and Position Indicator

■ Specifications

Rating	Switching	Max.	30mA 15VDC				
		Min.	1μA 20mVDC				
	Non-switching	100mA 50VDC					
Contact resistance		100m	100mΩ maximum				
Dielectric strength		250VAC, 60s					
Insulation resistance		1,000MΩ minimum(100VDC)					
Load life		20,000 steps 30mA 15VDC					
Operating torque		49mN·m [500gf·cm] maximum					
Operating temperature range		-25~+85°C					
Storage to	emperature range	-40∼+85°C					

■ Part Numberring -

SMR R

Series code Terminals Actuators

Circuits

Number of positions

Structure

Packaging spec

None Gull Wing

7 Screwdriver Actuator

O Real code

10 10 positions

1 Stick-Tube

None	Gull Wing
R	Right angle

7	Screwdriver Actuator
8	Shaft Actuator

0	Real code
1	Complementary code

10	10 positions			
16	16 positions			

1	Stick-Tube
1E	Taping

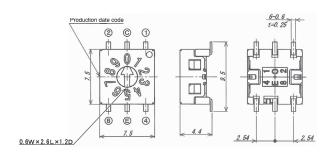
■ Table of Part Numbers

	Actuators	Screwdriver Actuator		Shaft Actuator	
Terminals Circuit function Positions		Gull Wing	Right Angle	Gull Wing	Right Angle
Real code	10	SMR7010C-1 SMR7010C-1E	SMRR7010C-1 SMRR7010C-1E	★ SMR8010C-1	★ SMRR8010C-1 ★ SMRR8010C-1E
Heal code	16	SMR7016C-1 SMR7016C-1E	SMRR7016C-1 SMRR7016C-1E	SMR8016C-1	★ SMRR8016C-1 ★ SMRR8016C-1E
Complementant and	10	SMR7110C-1 SMR7110C-1E	SMRR7110C-1 SMRR7110C-1E	SMR8110C-1	★ SMRR8110C-1 ★ SMRR8110C-1E
Complementary code	16	SMR7116C-1 SMR7116C-1E	SMRR7116C-1 SMRR7116C-1E	★ SMR8116C-1	★ SMRR8116C-1 ★ SMRR8116C-1E

SMR7010C-1(E) SMR7110C-1(E)



Gull Wing



Terminal numbers are shown on the bottom of the switch.

Real code

Actuator color : Yellow

Part No.	Position	Terminal #				
	FUSILIUIT	1	2	4	8	
	0					
	1					
	2					
	3					
SMR7010C-1(E)	4					
SMRR7010C-1(E)	5					
	6					
	7					
	8					
	9					

Complementary code

Actuator color : Red

Part No.	Position	Terminal #				
rait No.	FUSILIUIT	1	2	4	8	
	0					
	1					
SMR7110C-1(E) SMRR7110C-1(E)	2				•	
	3					
	4					
	5					
	6					
	7				•	
	8					
	9			•		

Real code

Actuator color : Yellow

Part No.	Position		Termi	inal #	
Pari No.	Position	1	2	4	8
	0				
	1				
	2				
	3				
	4				
	5				
	6				
SMR7016C-1(E)	7				
SMRR7016C-1(E)	8				•
	9				
	Α				•
	В				
	С				•
	D				
	Е		•	•	•
	F				•

Complementary code

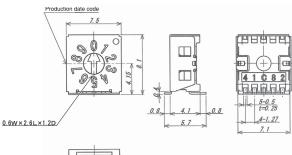
Actuator color: Red

Part No.	Position		Term	inal #	
Pari No.	FOSILIOII	1	2	4	8
	0				
	1				
	2	•			
	3				
	4	•			
	5				
	6	•			
SMR7116C-1(E)	7				
SMRR7116C-1(E)	8				
	9				
	Α				
	В				
	С				
	D				
	E				
	F				

SMRR7010C-1(E) SMRR7110C-1(E)



Right Angle



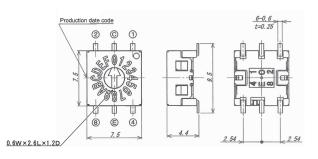


Terminal numbers are shown on the bottom of the switch.

SMR7016C-1(E) SMR7116C-1(E)



Gull Wing

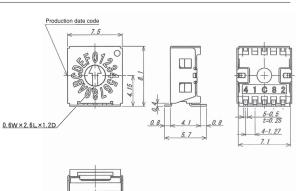


Terminal numbers are shown on the bottom of the switch.

SMRR7016C-1(E) SMRR7116C-1(E)



Right Angle

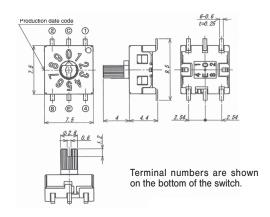


Terminal numbers are shown on the bottom of the switch.

SMR8010C-1 SMR8110C-1



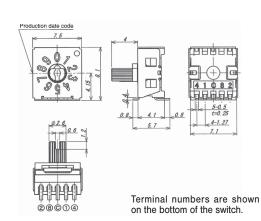
Gull Wing



SMRR8010C-1(E) SMRR8110C-1(E)



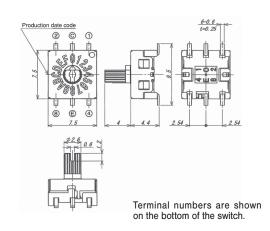
Right Angle



SMR8016C-1 SMR8116C-1



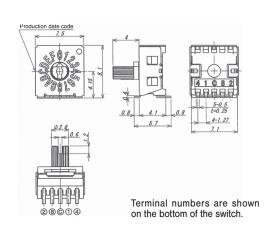
Gull Wing



SMRR8016C-1(E) SMRR8116C-1(E)



Right Angle



Real code

Actuator color : Yellow

Part No.	Position	Terminal #				
rait No.	FUSILIUII	1	2	4	8	
	0					
	1					
SMR8010C-1 SMRR8010C-1(E)	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9	•				

Complementary code

Actuator color : Red

Part No.	Position	Terminal #			
		1	2	4	8
SMR8110C-1 SMRR8110C-1(E)	0				
	1				
	2				
	3			•	
	4				
	5				
	6				
	7				•
	8	•	•		
	9		•		

Real code

Actuator color : Yellow

	1				
Part No.	Position	Terminal #			
		1	2	4	8
SMR8016C-1 SMRR8016C-1(E)	0				
	1				
	2				
	3				
	4				
	5				
	6				
	7				
	8				
	9				
	Α				
	В				
	С				
	D				
	E				
	F	•			

Complementary code

Actuator color : Red

Part No.	Position	Terminal #			
		1	2	4	8
SMR8116C-1 SMRR8116C-1(E)	0	•	•		•
	1				
	2				
	3				
	4				
	5				
	6				
	7				
	8				
	9				
	Α				
	В				
	С				
	D				
	E				
	F				

■ PCB Footprints

(Top view)

Terminal style	Gull Wing	Right Angle
Footprint dimensions	6-1.1	8.9 8.9 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5

■ Soldering Specifications

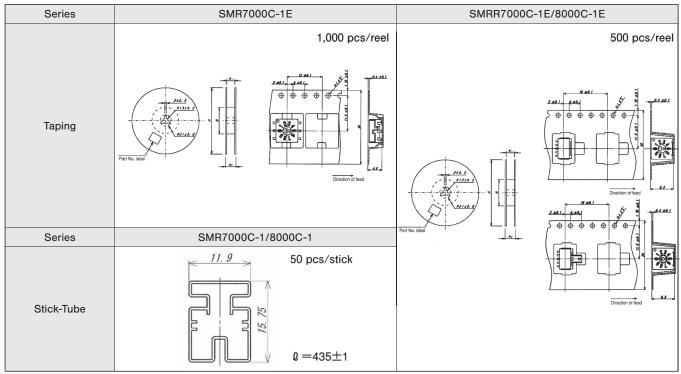
- Manual Soldering 350°C, 3 sec. Max.
- (2) Reflow
 Peak temperature 255°C (Please refer to the profile below.)

Peak: 250% C 250 250 230°C min. Pre Heating Zone 150°C 150°C 90±30 s Heating time Soldering Zone Reflow soldering: 2 times max.

■ Flux Cleaning

After soldering, wait until the switches cool down to room temperature (30°C or below) before washing. If the switches are cleaned while still above 30°C, a vacuum will occur which will cause the cleaning solution to be sucked into the switches.

Packaging Specifications -



- Taping quantity: SMR series 1,000pcs / reel, SMRR series 500pcs/reel. Each reel is packed in a cardboard box.
- Minimum packaging quantity: Stick-Tube 50pcs, Taping 500pcs or 1,000pcs (refer to Packaging Specifications)

Mouser Electronics

Authorized Distributor

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Nidec:

<u>SMR7010C-1E</u> <u>SMR7016C-1E</u> <u>SMR7110C-1E</u> <u>SMRR7116C-1E</u> <u>SMRR7010C-1E</u> <u>SMRR7016C-1E</u> <u>SMRR7010C-1E</u> <u>SMRR7010C-1E</u> <u>SMRR7010C-1E</u> <u>SMRR8010C-1E</u> <u>SMR8010C-1E</u> <u>SMRR8010C-1E</u> <u>SMRR8010C-1E</u> <u>SMRR8010C-1E</u> <u>SMRR8010C</u>