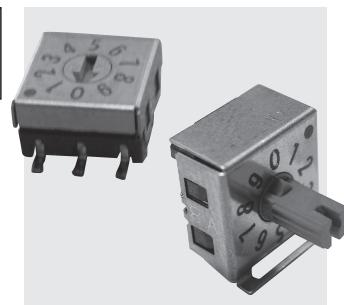


SMR•SMRR 7000C 8000C

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		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 temperature range		−40～+85°C	

■ Part Numbering

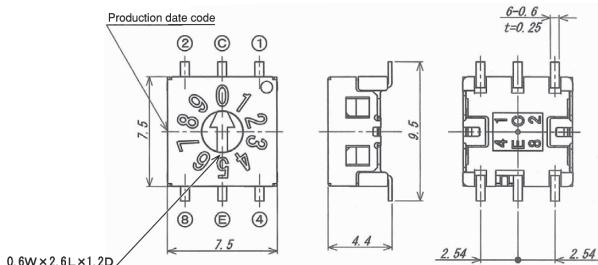
SMR	R	7	0	10	C	—	1	E
Series code	Terminals	Actuators	Circuits	Number of positions	Structure		Packaging spec	
None	Gull Wing	7 Screwdriver Actuator	0 Real code	10 10 positions	1 Stick-Tube			
R	Right angle	8 Shaft Actuator	1 Complementary code	16 16 positions	1E Taping			

■ Table of Part Numbers

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

★ : Made-to-order products.

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

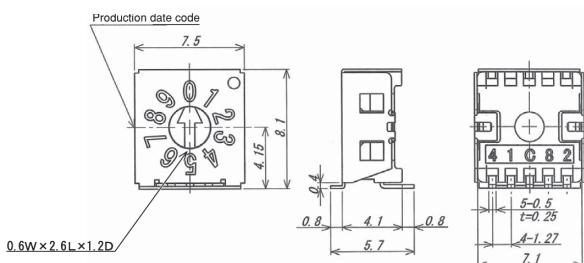


(Gull Wing)

Terminal numbers are shown on the bottom of the switch.

● Real code		Actuator color : Yellow				
Part No.	Position	Terminal #				8
		1	2	4	8	
SMR7010C-1(E) SMRR7010C-1(E)	0					
	1		●			
	2			●		
	3	●	●			
	4				●	
	5	●			●	
	6			●	●	
	7	●	●	●	●	
	8					●
	9	●				●

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

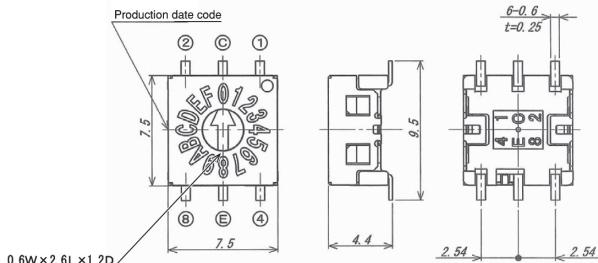


(Right Angle)

Terminal numbers are shown on the bottom of the switch.

Complementary code		Actuator color : Red			
Part No.	Position	Terminal #			
		1	2	4	8
SMR7110C-1(E) SMRR7110C-1(E)	0	●	●	●	●
	1		●	●	●
	2	●		●	●
	3			●	●
	4	●	●		●
	5		●		●
	6	●			●
	7				●
	8	●	●	●	
	9		●	●	

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

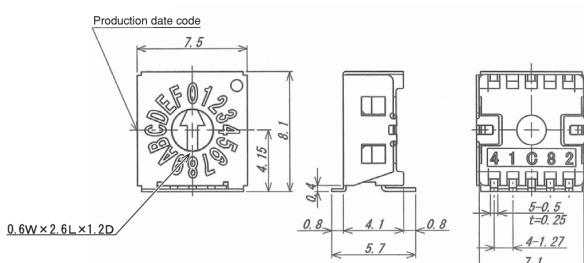


(Gull Wing)

Terminal numbers are shown on the bottom of the switch.

● Real code		Actuator color : Yellow				
Part No.	Position	Terminal #				8
		1	2	4	8	
SMR7016C-1(E) SMRR7016C-1(E)	0					
	1	●				
	2		●			
	3	●	●			
	4				●	
	5	●			●	
	6		●	●		
	7	●	●	●		
	8					●
	9	●				●
	A		●			●
	B	●	●			●
	C				●	●
	D	●		●	●	●
	E		●	●	●	●
	F	●	●	●	●	●

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



(Right Angle)

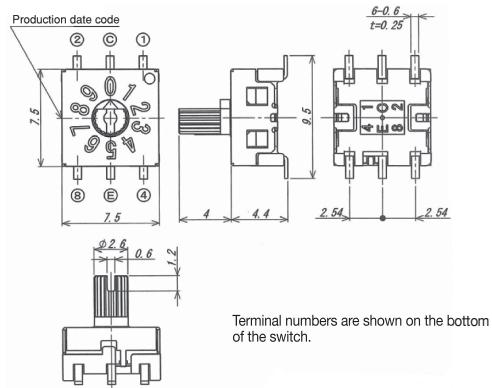
Terminal numbers are shown on the bottom of the switch.

● Complementary code		Actuator color : Red			
Part No.	Position	Terminal #			
		1	2	4	8
SMR7116C-1(E) SMRR7116C-1(E)	0	●	●	●	●
	1		●	●	●
	2	●		●	●
	3			●	●
	4	●	●		●
	5		●		●
	6	●			●
	7				●
	8	●	●	●	
	9		●	●	
	A	●		●	
	B			●	
	C	●	●		
	D			●	
	E	●			

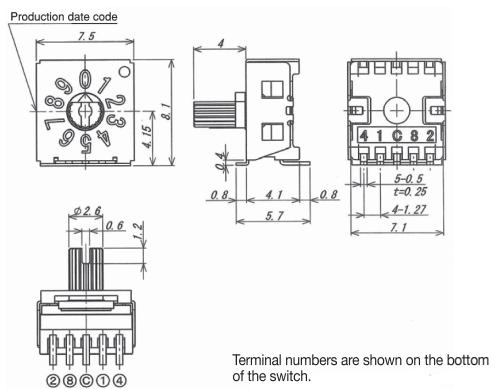
Washable

SMR•SMRR8000C**SMR8010C-1**
SMR8110C-1

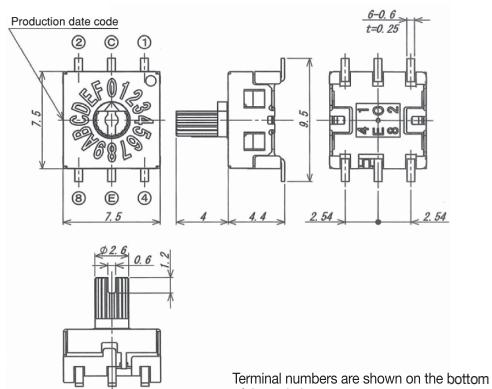
(Gull Wing)

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

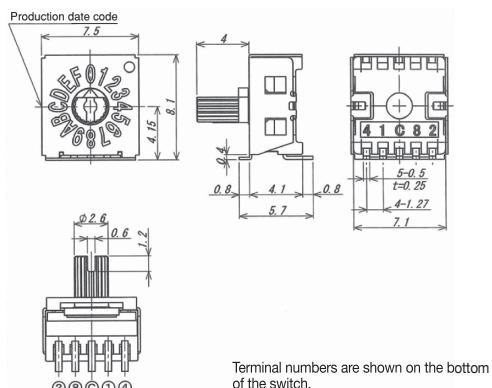
(Right Angle)

**SMR8016C-1**
SMR8116C-1

(Gull Wing)

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

(Right Angle)



● Real code

Actuator color : Yellow

Part No.	Position	Terminal #			
		1	2	4	8
SMR8010C-1 SMRR8010C-1(E)	0				
	1	●			
	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

Part No.	Position	Terminal #			
		1	2	4	8
SMR8016C-1 SMRR8016C-1(E)	0				
	1	●			
	2		●		
	3	●	●		
	4			●	
	5	●		●	
	6		●	●	
	7	●	●	●	
	8	●			●
	9	●			●
	A		●		●
	B	●	●		●
	C			●	●
	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	●		●	●
	A	●		●	●
	B			●	●
	C	●		●	●
	D			●	●
	E	●			
	F				

④ : Terminal E is ground terminal

● Connection to common (C).

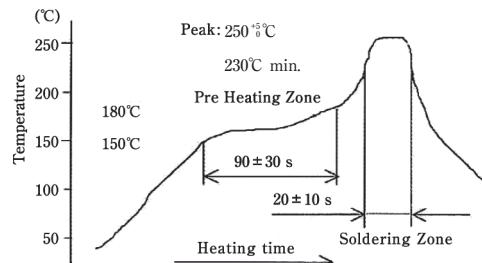
■ PCB Footprints

(Top view)

Terminal style	Gull Wing	Right Angle
Footprint dimensions		

■ Soldering Specifications

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



■ 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

Series	SMR7000C-1E	SMRR7000C-1E/8000C-1E
Taping		
Series		SMR7000C-1/8000C-1
Stick-Tube		

● 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)