DRS•DRR 7000C 8000C

Washable

Hyper-Miniature Dip Rotary Switches (7.5mm sq.) 〔PC 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℃	
Storage temperature range		−40～+85℃	

■ Part Numbering

DR S 7 0 10 C

- DR — Series code
- S — Terminals

S	PC/Straight
R	Right angle

- 7 — Actuators

7	Screwdriver Actuator
8	Shaft Actuator

- 0 — Circuits

0	Real code
1	Complementary code

- 10 — Number of positions

10	10 positions
16	16 positions

- C — Structure

■ able of Part Numbers

Circuit function	positions	Actuators / Terminal style: Screwdriver Actuator — PC Straight	Screwdriver Actuator — Right-Angle	Shaft Actuator — PC Straight	Shaft Actuator — Right Angle
Real code	10	**DRS7010C**	**DRR7010C**	**DRS8010C**	★ **DRR8010C**
	16	**DRS7016C**	**DRR7016C**	**DRS8016C**	**DRR8016C**
Complementary code	10	**DRS7110C**	**DRR7110C**	★ **DRS8110C**	★ **DRR8110C**
	16	**DRS7116C**	**DRR7116C**	**DRS8116C**	★ **DRR8116C**

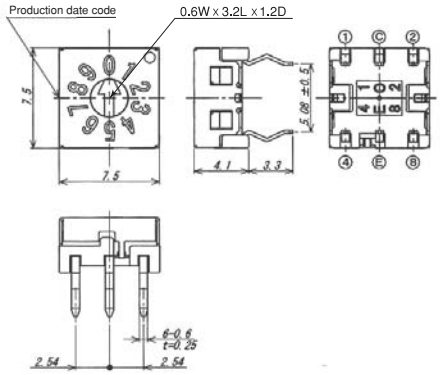
★ : Made-to-order products.

DRS•DRR7000C Washable

DRS7010C
DRS7110C



Straight



Terminal numbers are shown on the bottom of the switch.

● Real code Actuator color : Yellow

Part No.	Position	Terminal #			
		1	2	4	8
DRS7010C DRR7010C	0				
	1	●			
	2		●		
	3	●	●		
	4			●	
	5	●		●	
	6		●	●	
	7	●	●	●	
	8				●
	9	●			●

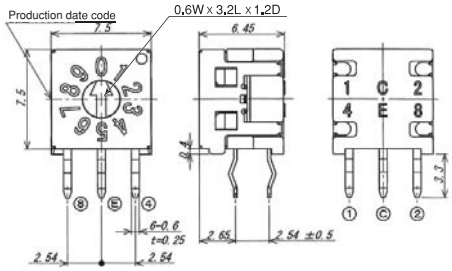
● Complementary code Actuator color : Red

Part No.	Position	Terminal #			
		1	2	4	8
DRS7110C DRR7110C	0	●	●	●	●
	1		●	●	●
	2	●		●	●
	3			●	●
	4	●	●		●
	5		●		●
	6	●			●
	7				●
	8	●	●	●	
	9		●	●	

DRR7010C
DRR7110C



Right Angle



Terminal numbers are shown on the bottom of the switch.

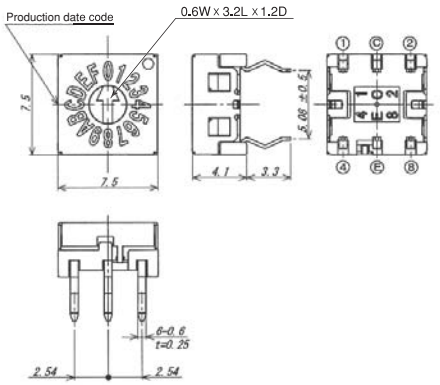
● Real code Actuator color : Yellow

Part No.	Position	Terminal #			
		1	2	4	8
DRS7016C DRR7016C	0				
	1	●			
	2		●		
	3	●	●		
	4			●	
	5	●		●	
	6		●	●	
	7	●	●	●	
	8				●
	9	●			●
	A		●		●
	B	●	●		●
	C			●	●
	D	●		●	●
	E		●	●	●
	F	●	●	●	●

DRS7016C
DRS7116C



Straight



Terminal numbers are shown on the bottom of the switch.

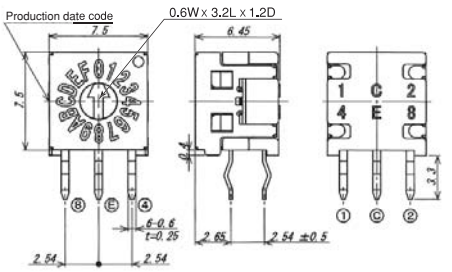
● Complementary code Actuator color : Red

Part No.	Position	Terminal #			
		1	2	4	8
DRS7116C DRR7116C	0	●	●	●	●
	1		●	●	●
	2	●		●	●
	3			●	●
	4	●	●		●
	5		●		●
	6	●			●
	7				●
	8	●	●	●	
	9		●	●	
	A	●		●	
	B			●	
	C	●	●		
	D		●		
	E	●			
	F				

DRR7016C
DRR7116C



Right Angle



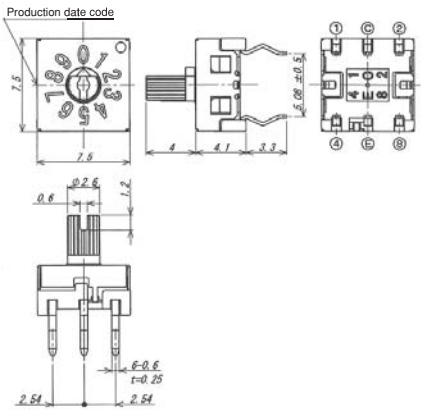
Terminal numbers are shown on the bottom of the switch.

Ⓔ : Terminal E is ground terminal ●···Connection to common (C).

DRS8010C
DRS8110C



Straight



Terminal numbers are shown on the bottom of the switch.

● Real code　　Actuator color：Yellow

Part No.	Position	Terminal #			
		1	2	4	8
DRS8010C DRR8010C	0				
	1	●			
	2		●		
	3	●	●		
	4			●	
	5	●		●	
	6		●	●	
	7	●	●	●	
	8				●
	9	●			●

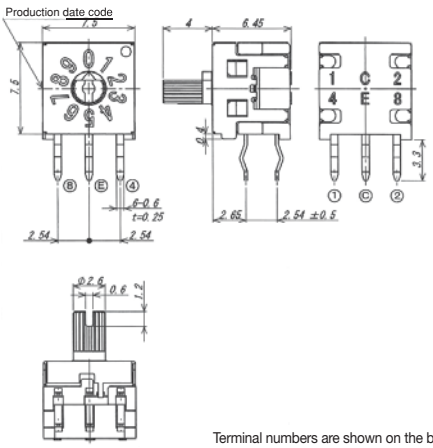
● Complementary code　　Actuator color：Red

Part No.	Position	Terminal #			
		1	2	4	8
DRS8110C DRR8110C	0	●	●	●	●
	1		●	●	●
	2	●		●	●
	3			●	●
	4	●	●		●
	5		●		●
	6	●			●
	7				●
	8	●	●	●	
	9		●	●	

DRR8010C
DRR8110C



Right Angle

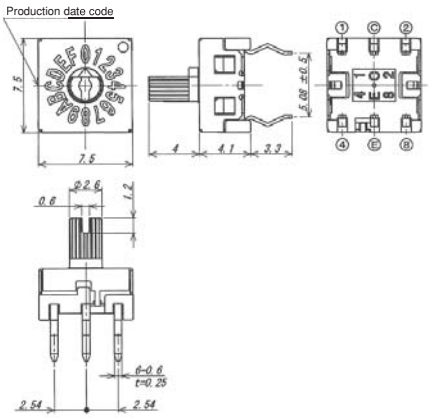


Terminal numbers are shown on the bottom of the switch.

DRS8016C
DRS8116C



Straight



Terminal numbers are shown on the bottom of the switch.

● Real code　　Actuator color：Yellow

Part No.	Position	Terminal #			
		1	2	4	8
DRS8016C DRR8016C	0				
	1	●			
	2		●		
	3	●	●		
	4			●	
	5	●		●	
	6		●	●	
	7	●	●	●	
	8				●
	9	●			●
	A		●		●
	B	●	●		●
	C			●	●
	D	●		●	●
	E		●	●	●
	F	●	●	●	●

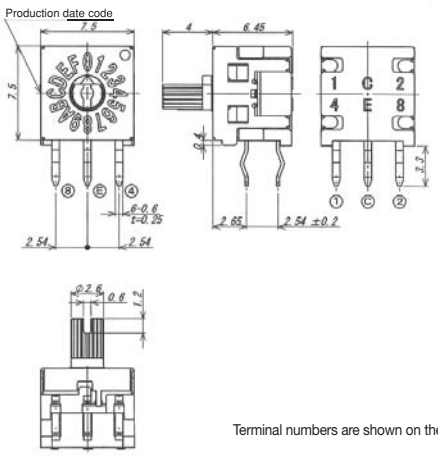
● Complementary code　　Actuator color：Red

Part No.	Position	Terminal #			
		1	2	4	8
DRS8116C DRR8116C	0	●	●	●	●
	1		●	●	●
	2	●		●	●
	3			●	●
	4	●	●		●
	5		●		●
	6	●			●
	7				●
	8	●	●	●	
	9		●	●	
	A	●		●	
	B			●	
	C	●	●		
	D		●		
	E	●			
	F				

DRR8016C
DRR8116C



Right Angle

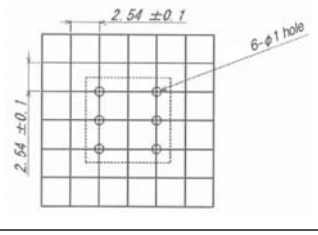
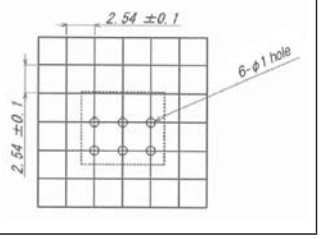


Terminal numbers are shown on the bottom of the switch.

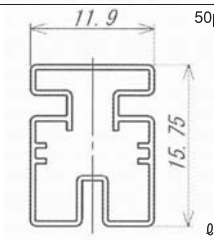
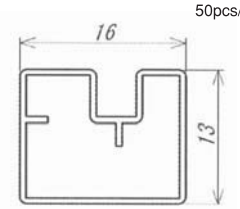
Ⓔ：Terminal E is ground terminal　　●…Contact closed

■ PCB Footprints

(Top view)

Terminal style	PC Straight	Right Angle
Footprint dimensions		

■ Packaging Specifications

Series	DRS7000C/8000C	DRR7000C/8000C
Stick-Tube Specifications	 50pcs/stick ℓ=435±1	 50pcs/stick ℓ=415±1

※ Order in 50 piece increments.

■ Soldering Specifications

(1) Manual Soldering
350℃, 3 sec. Max

(2) Wave Soldering
Immerse the switch two times for the portion from the front end of terminal to the back side of PCB for 5 to 6 seconds in the 260±3℃ soldering pot.

■ Switch Operation

Use a screwdriver for setting position of the actuator.

■ Flux Cleaning

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