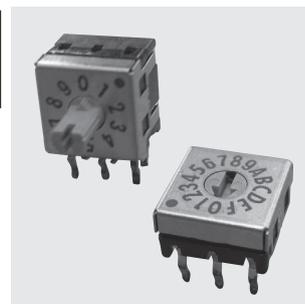# DRS・DRR 7000C 8000C Washable

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°C
Storage temperature range			−40～＋85°C

■ Part Numbering

DR	S	7	0	10	C
Series code	Terminals	Actuators	Circuits	Number of positions	Structure

S	PC Straight
R	Right angle

7	Screwdriver Actuator
8	Shaft Actuator

0	Real code
1	Complementary code

10	10 positions
16	16 positions

■ Table of Part Numbers

		Actuators	Screwdriver Actuator		Shaft Actuator	
Circuit function	Terminal style positions		PC Straight	Right-Angle	PC Straight	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.

DRS7010C
DRS7110C

Production date code
0.6W X 3.2L X 1.2D
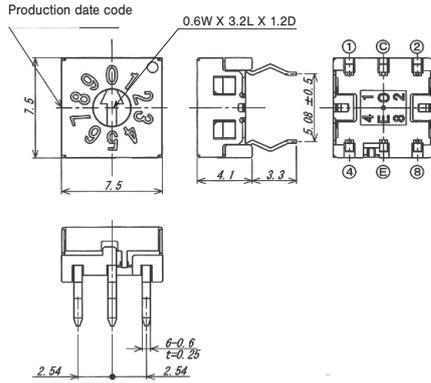
PC Straight

Terminal numbers are shown on the bottom of the switch.

DRR7010C
DRR7110C

Production date code
0.6W X 3.2L X 1.2D

Right Angle

Terminal numbers are shown on the bottom of the switch.

DRS7016C
DRS7116C

Production date code
0.6W X 3.2L X 1.2D

PC Straight

Terminal numbers are shown on the bottom of the switch.

DRR7016C
DRR7116C

Production date code
0.6W X 3.2L X 1.2D

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
DRS7010C DRR7010C	0				
	1	●			
	2		●		
	3	●	●		
	4			●	
	5	●		●	
	6		●	●	
	7	●	●	●	
	8				●
	9	●			●
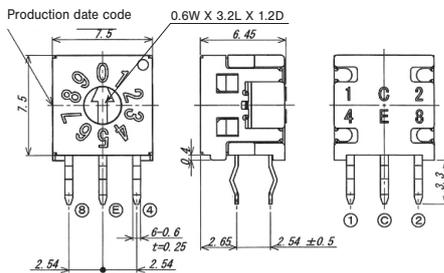
● Complementary code   Actuator color:Red

Part No.	Position	Terminal #			
		1	2	4	8
DRS7110C DRR7110C	0	●	●	●	●
	1		●	●	●
	2	●		●	●
	3			●	●
	4	●	●		●
	5		●		●
	6	●			●
	7				●
	8	●	●	●	
	9		●	●	
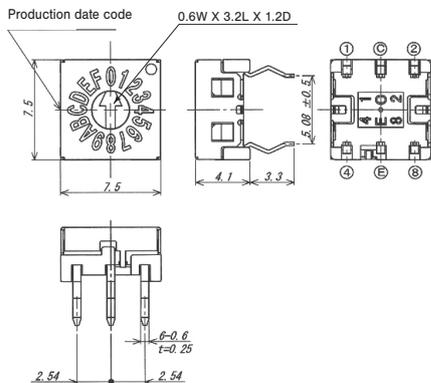
● Real code   Actuator color:Yellow

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	●	●	●	●

● 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				

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

DRS8010C
DRS8110C

Production date code
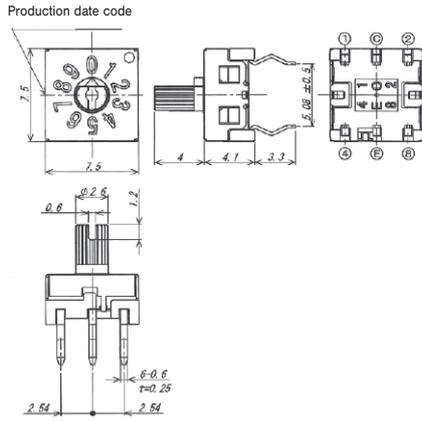
PC Straight

Terminal numbers are shown on the bottom of the switch.

DRR8010C
DRR8110C

Production date code

Right Angle

Terminal numbers are shown on the bottom of the switch.

DRS8016C
DRS8116C

Production date code

PC Straight

Terminal numbers are shown on the bottom of the switch.

DRR8016C
DRR8116C

Production date code

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
DRS8010C DRR8010C	0				
	1	●			
	2		●		
	3	●	●		
	4			●	
	5	●		●	
	6		●	●	
	7	●	●	●	
	8				●
	9	●			●
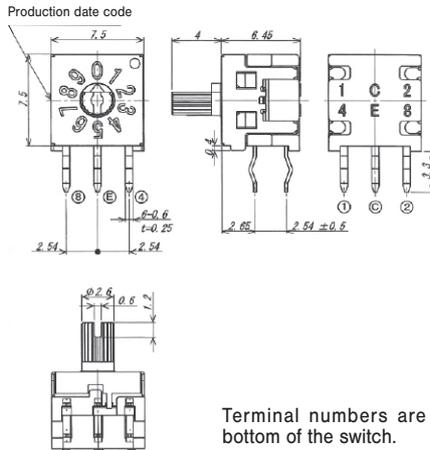
● Complementary code Actuator color:Red

Part No.	Position	Terminal #			
		1	2	4	8
DRS8110C DRR8110C	0	●	●	●	●
	1		●	●	●
	2	●		●	●
	3			●	●
	4	●	●		●
	5		●		●
	6	●			●
	7				●
	8	●	●	●	
	9		●	●	
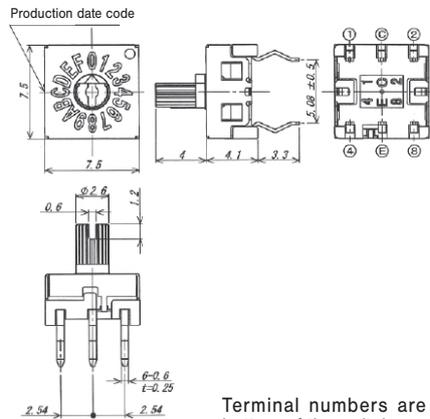
● Real code Actuator color:Yellow

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				

Ⓔ：Terminal E is ground terminal   ●...Contact closed

■ PCB Footprints

（Top view）

Terminal style	**PC Straight**	**Right Angle**
Footprint dimensions	2.54 ±0.1 2.54 ±0.1 6-φ1 hole	2.54 ±0.1 2.54 ±0.1 6-φ1 hole

■ Packaging Specifications

Series	**DRS7000C/8000C**	**DRR7000C/8000C**
Stick-Tube Specifications	11.9 15.75 50 pcs./stick ℓ=435±1	16 13 50 pcs./stick ℓ=415±1

※Order in 50 piece increments.

■ Soldering Specifications

（1）Manual Soldering
350°C, 3 sec. Max

（2）Flow
245~260°C, Max.; 3 to 5 seconds (One time)
Total dip time within 10 sec.

■ 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°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.