Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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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
- 7 — Actuators
- 0 — Circuits
- 10 — Number of positions
- C — Structure

Terminals	
S	PC/Straight
R	Right angle

Actuators	
7	Screwdriver Actuator
8	Shaft Actuator

Circuits	
0	Real code
1	Complementary code

Number of positions	
10	10 positions
16	16 positions

■ able of Part Numbers

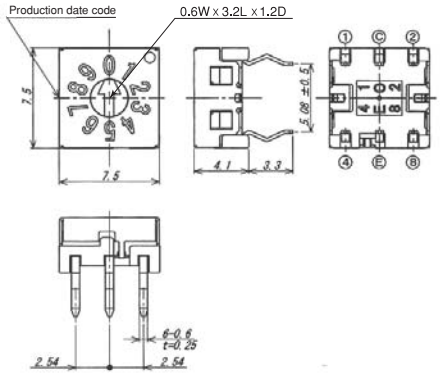
Circuit function	Terminal style / positions	Screwdriver Actuator: PC Straight	Screwdriver Actuator: Right-Angle	Shaft Actuator: PC Straight	Shaft Actuator: Right Angle
Real code	10	**DRS7010C**	**DRR7010C**	**DRS8010C**	**★ DRR8010C**
	16	**DRS7016C**	**DRR7016C**	**DRS8016C**	**DRR8016C**
Complementary 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

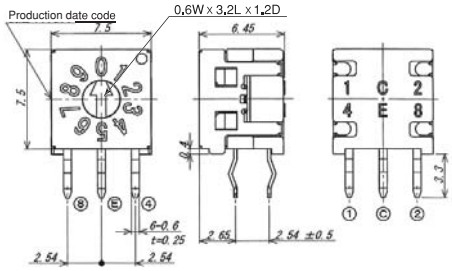
Part No.	Position	Terminal #			
		1	2	4	8
DRS7010C DRR7010C	0				
	1	●			
	2		●		
	3	●	●		
	4			●	
	5	●		●	
	6		●	●	
	7	●	●	●	
	8				●
	9	●			●

● 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



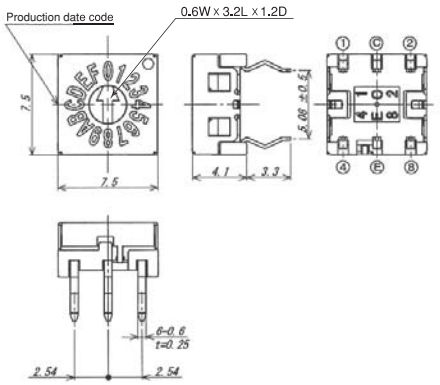
Terminal numbers are shown on the bottom of the switch.

● 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



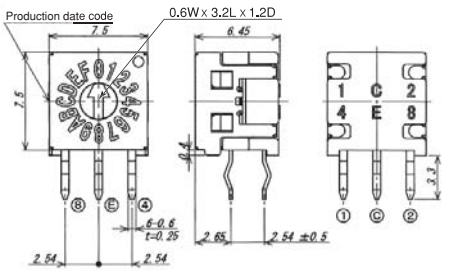
Terminal numbers are shown on the bottom of the switch.

● 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

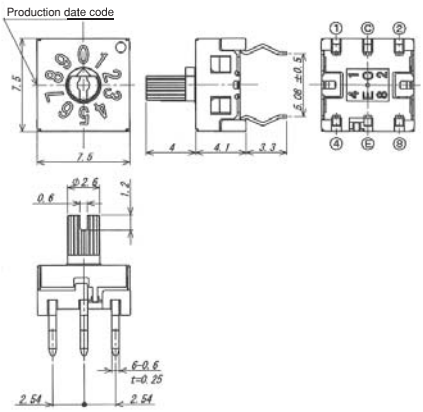


Terminal numbers are shown on the bottom of the switch.

Ⓔ : 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

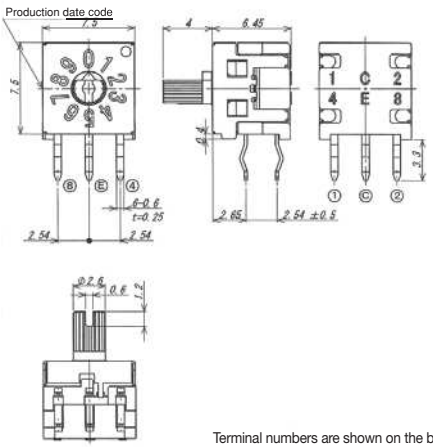
Part No.	Position	Terminal #			
		1	2	4	8
DRS8010C DRR8010C	0				
	1	●			
	2		●		
	3	●	●		
	4			●	
	5	●		●	
	6		●	●	
	7	●	●	●	
	8				●
	9	●			●

● 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

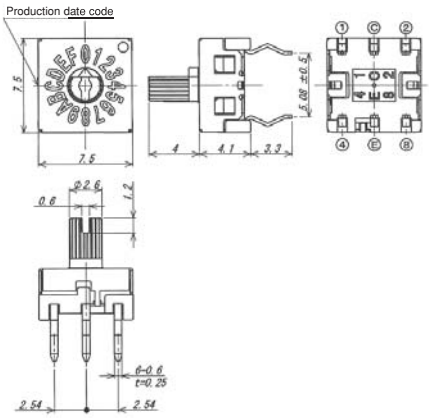
Right Angle



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

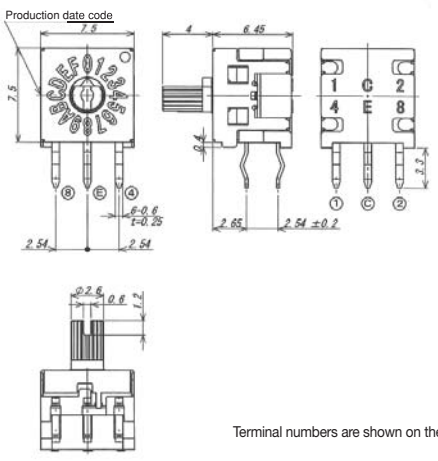
Part No.	Position	Terminal #			
		1	2	4	8
DRS8016C DRR8016C	0				
	1	●			
	2		●		
	3	●	●		
	4			●	
	5	●		●	
	6		●	●	
	7	●	●	●	
	8				●
	9	●			●
	A		●		●
	B	●	●		●
	C			●	●
	D	●		●	●
	E		●	●	●
	F	●	●	●	●

● 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

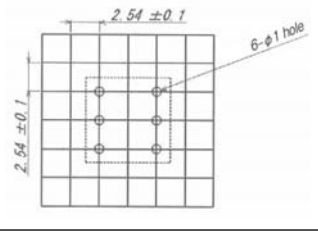
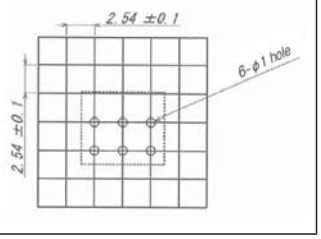


Terminal numbers are shown on the bottom of the switch.

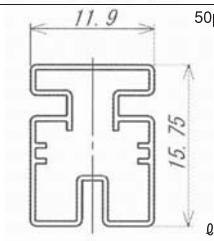
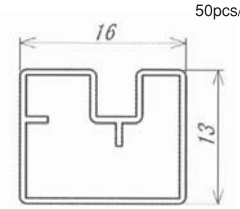
Ⓔ：Terminal E is ground terminal　　●…Contact closed

■ 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.