














Rotary Switches

List of Varieties

Series	SRBD	SRBQ		SRBM		SRBV	SRRM	SRRN	
		Insertion	Reflow type	Rotary	Pulse				
Photo									
Angle of throw	36°	40±3°		30±3°	18±3°	30±3°			
Number of poles	1		1, 2		1		1, 2, 3, 4	2, 3, 4	
Rotational torque	13±5mN·m	6±3mN·m 13±5mN·m		40±20mN·m 15±7mN·m		30±15mN·m	80±30mN·m (Shorting) 70±30mN·m (Non shorting)	70±30mN·m	
Dimensions (mm)	W	10	11.4		10		16.2		
	D		12.4		12.5		18.5		
	H		3.5		11		7.5		
Operating temperature range	-25°C to +85°C	-10°C to +60°C		-30°C to +85°C		-10°C to +85°C	-10°C to +60°C	-30°C to +65°C	
Automotive use	—	—		—		—	—	—	
Life cycle									
Rating (max.)/(min.) (Resistive load)	1mA 5V DC 50µA 3V DC	0.1A 16V DC 50µA 3V DC				0.3A 16V DC 50µA 3V DC		0.25A 30V DC 50µA 3V DC	0.15A 12V DC 50µA 3V DC
Durability	Operating life without load	10,000 cycles 250mΩ max.	10,000 cycles 100mΩ max.		30,000 cycles 100mΩ max.		10,000 cycles 100mΩ max.	10,000 cycles 40mΩ max.	10,000 cycles 70mΩ max.
	Operating life with load Load: as rating	10,000 cycles 250mΩ max.	10,000 cycles 100mΩ max.	10,000 cycles 150mΩ max.			10,000 cycles 60mΩ max.	10,000 cycles 100mΩ max.	
Electrical performance	Initial contact resistance	200mΩ max.	50mΩ max.				20mΩ max.	50mΩ max.	
	Insulation resistance	100MΩ min. 100V DC					100MΩ min. 500V DC		
	Voltage proof	100V AC for 1minute					500V AC for 1minute		
Mechanical performance	Terminal strength	3N for 1minute	5N for 1minute				10N for 1minute	5N for 1minute	
	Actuator strength	Operating direction	—	—	0.5N·m	—	0.6N·m	1N·m	
		Pulling direction	50N	20N	100N				
	Wobble of actuator	Load at the tip of shaft SRRM, SRBM, SRRN: 5N, SRBQ, SRBV: 1N							
The below table shows for SRRM, SRBM, SRRN			The below table shows for SRBQ			The below table shows for SRBV			
Measuring position from mounting surface		Shaft wobble (max. value)	Applicable mounting dimension	Distance from mounting surface to the tip of shaft	Shaft wobble (max. value)	Measuring position from mounting surface	Shaft wobble (max. value)	Applicable mounting dimension	
10		0.17	15	below 5	0.5	10	0.2	15	
15		0.25	20	above 5 and below 10	0.9	15	0.3	20	
20	0.35	25	above 10 and below 15	1.2	20	0.4	25		
25	0.42	30							
30	0.5	above 35							
Unit:mm									
Environmental performance	Cold	-40°C 500h	-20°C 96h	-40°C 96h		-20°C 96h		-40°C 96h	
	Dry heat	85°C 500h	85°C 96h						
	Damp heat	60°C, 90 to 95%RH 500h	40°C, 90 to 95%RH 96h						
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