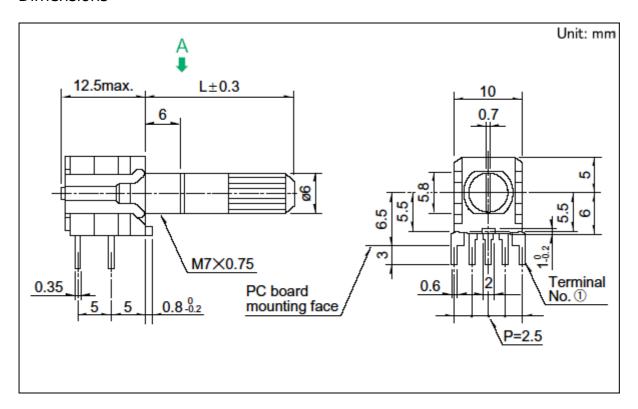


# 6-positions Horizontal Type SRBM Series

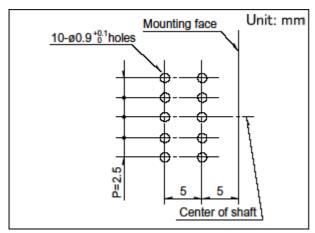
Number of wafer       1         Poles       1         Positions       6         Changeover angle       30±3°         Changeover timing       Non shorting         Rotational torque       40±20mN·m         Actuator configurational torque       18-tooth serration         Actuator length       1: 15mm         Operating temperature range       -30°C to ±85°C         Rating (max.)/(min.) (Resistive load)       0.1A 16V DC/50µA 3V DC         Electrical performance       Contact resistance (Initial performance/After lifetime)       50mΩ max./150mΩ max.         Insulation resistance   Initial performance/After lifetime)       100MΩ min. 100V DC         Voltage proof       1000V AC for 1 minute         Mechanical performance       Actuator strength Actuator strength Push direction       0.5N·m         Non x 1 minute       0.5N·m         Push direction       100N         Mechanical performance       Non x 2 for 1 minute         Mechanical performance       Non x 2 for 1 minute         Mechanical performance       Non x 3 for 1 minute         Mechanical performance       Non x 3 for 1 minute         Mechanical performance       Non x 3 for 1 minute         Non x 3 for 1				
Positions       6         Changeover angle       30±3°         Changeover timing       Non shorting         Rotational torque       40±20mN·m         Actuator configuration       18-tooth serration         Actuator length       L: 15mm         Operating temperature range       -30°C to +85°C         Rating (max.)/(min.) (Resistive load)       0.1A 16V DC/50µA 3V DC         Electrical performance       Contact resistance (Initial performance/After lifetime)       50mΩ max./150mΩ max.         Insulation resistance (Initial performance/After lifetime)       100MΩ min. 100V DC         Voltage proof       100V AC for 1 minute         Mechanical performance       Actuator strength       Rotational direction       0.5N·m         Push direction       100N         Wobble of actuator (load at the tip of shaft: 5N)       Measuring position from mounting surface       10mm         Shaft wobble (max. value)       0.17mm max. value)         Applicable mounting dimension       15mm         Durability       Operating life without load       10,000 cycles 100mΩ max.	Number of wafer			1
Changeover timing Non shorting  Rotational torque 40±20mN·m  Actuator configuration 18-tooth serration  Actuator length L: 15mm  Operating temperature range -30°C to +85°C  Rating (max.)/(min.) (Resistive load) 0.1A 16V DC/50μA 3V DC  Electrical performance Contact resistance (Initial performance) Insulation resistance (Initial performance) Voltage proof 100MΩ min. 100V DC  Voltage proof 100V AC for 1 minute  Mechanical performance  Mechanical performance  Mechanical performance  Mechanical performance  Mechanical performance  Ferminal strength Actuator strength Push direction 100N  Wobble of actuator (load at the tip of shaft: SN)  Measuring position from mounting surface  Shaft wobble (max. value) 15mm max.  Applicable mounting 15mm dimension  Durability Operating life without load 10,000 cycles 100mΩ max.	Poles			1
Changeover timing       Non shorting         Rotational torque       40±20mN·m         Actuator configuration       18-tooth serration         Actuator length       L: 15mm         Operating temperature range       -30°C to +85°C         Rating (max.)/(min.) (Resistive load)       0.1A 16V DC/50μA 3V DC         Electrical performance       Contact resistance (Initial performance/After lifetime)       50mΩ max./150mΩ max.         Insulation resistance       100MΩ min. 100V DC         Voltage proof       100V AC for 1 minute         Mechanical performance         Actuator strength       Rotational direction       0.5N·m         Push direction       100M         Wobble of actuator (load at the tip of shaft: 5N)       Measuring position from mounting surface         Shaft wobble (max. value)       0.17mm max.         Applicable mounting dimension         Durability       Operating life without load       10,000 cycles 100mΩ max.	Positions			6
Rotational torque       40±20mN·m         Actuator configuration       18-tooth serration         Actuator length       L: 15mm         Operating temperature range       -30°C to +85°C         Rating (max.)/(min.) (Resistive load)       0.1A 16V DC/50µA 3V DC         Electrical performance       Contact resistance (Initial performance/After lifetime)       50mΩ max./150mΩ max.         Insulation resistance       100MΩ min. 100V DC         Voltage proof       100V AC for 1 minute         Mechanical performance         Performance         Mechanical strength Actuator strength       Rotational direction       0.5N·m         Push direction       100N         Wobble of actuator (load at the tip of shaft: 5N)       Measuring position from mounting surface       10mm         Shaft wobble (max. value)       0.17mm max. value)       Applicable mounting dimension       15mm dimension	Changeover angle			30±3°
Actuator configuration       18-tooth serration         Actuator length       L: 15mm         Operating temperature range       -30°C to +85°C         Rating (max.)/(min.) (Resistive load)       0.1A 16V DC/50µA 3V DC         Electrical performance       Contact resistance (Initial performance/After lifetime)       50mΩ max./150mΩ max.         Insulation resistance Voltage proof       100MΩ min. 100V DC         Voltage proof       100V AC for 1 minute         Mechanical performance       Terminal strength       Rotational direction       0.5N·m         Push direction       100N         Wobble of actuator (load at the tip of shaft: SN)       Measuring position from mounting surface       10mm         Shaft wobble (max. value)       0.17mm max.         Applicable mounting dimension         Durability       Operating life without load       10,000 cycles 100mΩ max.	Changeover timing			Non shorting
Actuator length  Deprating temperature range  Rating (max.)/(min.) (Resistive load)  Contact resistance (Initial performance  Insulation resistance  Insulation resistance  Voltage proof  Voltage proof  Terminal strength  Actuator strength  Rotational direction  Push direction  Wobble of actuator (load at the tip of shaft: 5N)  Wobble (max. value)  Applicable mounting dimension  L: 15mm  -30°C to +85°C  SomΩ max./150mΩ max.  150mΩ max./150mΩ max.  150mΩ max./150mΩ max.  5Nf or 1 minute  SN for 1 minute  -30°C to +85°C  -	Rotational torque		40±20mN·m	
Operating temperature range -30°C to +85°C  Rating (max.)/(min.) (Resistive load) 0.1A 16V DC/50μA 3V DC  Electrical performance performance/After lifetime) 50mΩ max./150mΩ max.  Insulation resistance 100MΩ min. 100V DC  Voltage proof 100V AC for 1 minute  Mechanical performance Actuator strength Rotational direction 0.5N·m  Push direction 100N  Wobble of actuator (load at the tip of shaft: 5N) Measuring position (load at the tip of shaft: 5N)  Shaft wobble (max. value) 15mm dimension  Durability Operating life without load 10,000 cycles 100mΩ max.	Actuator configuration		18-tooth serration	
Rating (max.)/(min.) (Resistive load)  Contact resistance (Initial performance)  Insulation resistance  Voltage proof  Voltage proof  Terminal strength Push direction  (load at the tip of shaft: 5N)  Wobble of actuator (load at the tip of shaft: 5N)  Applicable mounting urans.  O.1A 16V DC/50μA 3V DC  SomΩ max./150mΩ max.  100MΩ min. 100V DC  100V AC for 1 minute  5N for 1 minute  0.5N·m  Push direction 100N  10mm  from mounting surface  Shaft wobble (max. value)  Applicable mounting 15mm dimension  Durability  Operating life without load  10,000 cycles 100mΩ max.	Actuator length			L: 15mm
Electrical performance Perfor	Operating temperat	ture range		-30℃ to +85℃
Performance   Performance   Performance   Performance   Insulation resistance   100MΩ min. 100V DC	Rating (max.)/(min	.) (Resistive load)		0.1A 16V DC/50μA 3V DC
Mechanical performance     Terminal strength     5N for 1 minute       Actuator strength     Rotational direction     0.5N·m       Push direction     100N       Wobble of actuator (load at the tip of shaft: 5N)     Measuring position from mounting surface     10mm       Shaft wobble (max. value)     0.17mm max. value)       Applicable mounting dimension     15mm dimension				50m $\Omega$ max./150m $\Omega$ max.
Mechanical performance       Terminal strength       5N for 1 minute         Actuator strength       Rotational direction       0.5N·m         Push direction       100N         Wobble of actuator (load at the tip of shaft: 5N)       Measuring position from mounting surface       10mm         Shaft wobble (max. value)       0.17mm max. value)         Applicable mounting dimension       15mm         Durability       Operating life without load       10,000 cycles 100mΩ max.		Insulation resistance		100MΩ min. 100V DC
Push direction 0.5N·m    Push direction 0.5N·m		Voltage proof		100V AC for 1 minute
Actuator strength Rotational direction 0.5N·m  Push direction 100N  Wobble of actuator (load at the tip of shaft: 5N)  Shaft wobble (max. value)  Applicable mounting 15mm dimension  Durability  Operating life without load 10,000 cycles 100mΩ max.		Terminal strength		5N for 1 minute
Wobble of actuator Measuring position 10mm (load at the tip of from mounting shaft: 5N) surface  Shaft wobble (max. 0.17mm max. value)  Applicable mounting 15mm dimension  Durability Operating life without load 10,000 cycles 100mΩ max.	performance	Actuator strength	Rotational direction	0.5N·m
(load at the tip of shaft: 5N) surface  Shaft wobble (max. 0.17mm max. value)  Applicable mounting 15mm dimension  Durability Operating life without load 10,000 cycles 100mΩ max.			Push direction	100N
Shaft wobble (max. $0.17\text{mm}$ max. value)  Applicable mounting $15\text{mm}$ dimension  Durability Operating life without load $10,000 \text{ cycles } 100\text{m}\Omega \text{ max.}$		(load at the tip of	from mounting surface	
dimension $ 10,000 \text{ cycles } 100m\Omega \text{ max.} $			Shaft wobble (max.	0.17mm max.
Operating life with load (at max. rated $10,000$ cycles $150$ m $\Omega$ max.	Durability	Operating life without load		10,000 cycles 100m $\Omega$ max.
		Operating life with load (at max. rated		10,000 cycles 150m $\Omega$ max.

	load)		
Environmental performance	Cold		-40±2℃ for 96h
	Dry heat  Damp heat		85±2℃ for 96h
			40±2℃, 90 to 95%RH for 96h
Minimum order unit (pcs.)		Japan	360
		Export	1,800

### **Dimensions**

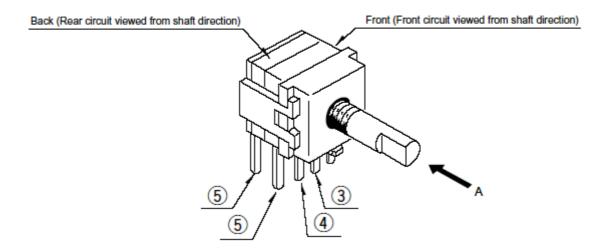


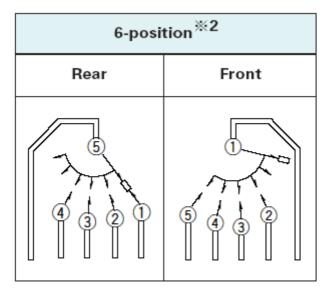
## Mounting Hole Dimensions



Viewed from direction A in the dimensions.

### Circuit Diagram





- 1. Viewed from direction A.
- 2. Circuit steps are 3 to 6 positions at front and 1 to 4 positions at rear.
- 3. It is necessary external wiring of common terminals.
- 4. For positions 6, 1 section consists of 1-pole.

### **Packing Specifications**

#### Tray

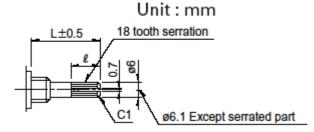
Number of packages 1 case / Japan (pcs.)	360
1 case / export packing	1,800
Export package measurements (mm)	400×270×290

### Shaft Style

#### \* 18-tooth Serration Shaft

The shaft shows the position in which it is turned fully counterclockwise.

## Die Casting Shaft



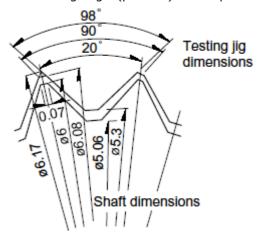
Un	it : mm
Shaft length L	l
15	8
20	12

#### **Details About Serration**

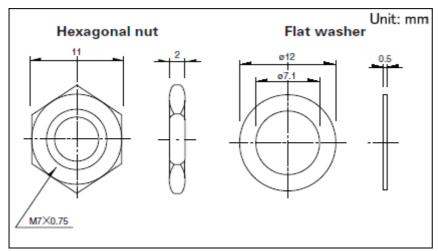
- (1) The mold dimensions of standard serration and the dimensions of test jigs are as shown in the figure at left.
- (2) Position of the serration bottom

  When the shaft is turned fully counterclockwise, the position of the serration bottom is on the AA line.
- (3) Slitting angle

The slitting angle (position) is not specified.



#### Attached Parts



The following parts are included with the product.

### **Soldering Conditions**

#### **Reference for Dip Soldering**

Items	Preheating temperature	100℃ max.
	Preheating time	60s max.

Dip soldering	Soldering temperature	260±5℃	
	Duration of immersion	5s max.	
Reference for Hand Solder	ing		
Soldering temperature		350±10℃	
Soldering time		3+1/0s	

### Notes are common to this series/models.

- 1. This site catalog shows only outline specifications. When using the products, please obtain formal specifications for supply.
- 2. All the axis are die casting shafts.
- 3. Please place purchase orders per minimum order unit (integer).
- 4. Products other than those listed in the above chart are also available. Please contact us for details.