

Subminiature DIP Switch for High-Density Packaging

- Subminiature size (10 x 10 x 7.5 mm), ideal for high-density packaging
- Completely sealed construction prevents flux entry during automatic flow soldering
- BCD and hexadecimal types available (each complement type also available)
- Position switching operation possible with a turn of a screwdriver from either top and side; the screwdriver slot on the top can rotate in either direction for desired setting
- Thumbwheel and extended shaft type also available
- RoHS Compliant



Ordering Information

Output code type	No. of switching positions	Part numbers			
		Standard type	Flat type	Extended shaft type	Thumbwheel type
BCD 1-2-4-8	10	A6A-10R	A6A-10RF	A6A-10RS	A6A-10RW
BCD 1-2-4-8 complement only	10	A6A-10C	A6A-10CF	A6A-10CS	A6A-10CW
Hexadecimal 1-2-4-8	16	A6A-16R	A6A-16RF	A6A-16RS	A6A-16RW
Hexadecimal 1-2-4-8 complement only	16	A6A-16C	A6A-16CF	A6A-16CS	A6A-16CW

Important Note: Switches cannot be water-washed.

Specifications

■ Characteristics

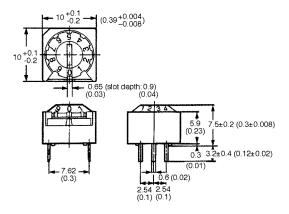
Switching capacity		1 to 100 mA, 5 to 28 VDC		
Carry current		100 mA, 50 VDC (max.)		
Contact resistance		200 MΩmax.		
Insulation resistance		10 MΩ min. (at 250 VDC)		
Dielectric strength		500 VAC for 1 minute between current-carrying metal part and ground 250 VAC for 1 minute between terminals of same polarity		
Operating force		120 to 250 g-cm		
Vibration	Malfunction durability	10 to 55 Hz, 1.5 mm double amplitude		
Shock	Malfunction durability	Approx. 300 m/s ² (30 G)		
Materials	Base/Cover	PBT (Polybutylene terephthalate)		
	Dial/Rotor	Polyacetal		
	O-ring	Acryl nitril butadiene rubber		
	Movable contact	Phosphor bronze plated with Ag/Au clad		
	Terminal	Beryllium copper		
Ambient temperature		-10° to 70°C		
Humidity		45% to 85% RH		
Service life	Mechanical	10,000 detent operations min.		
	Electrical	2,000 detent operations min.		
Weight		A6A-10R(S) Approx. 0.8 g, A6A-10W Approx. 1.1 g		

Note: Data shown are of initial value.

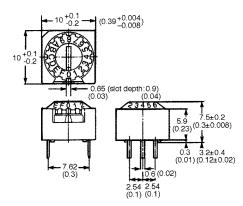
Dimensions

Unit: mm (inch)

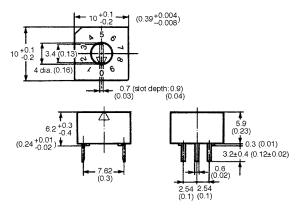
■ A6A-10R, A6A-10C



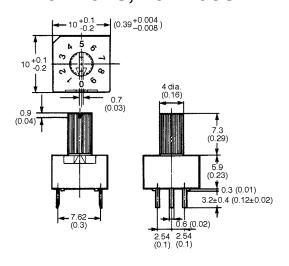
■ A6A-16R, A6A-16C



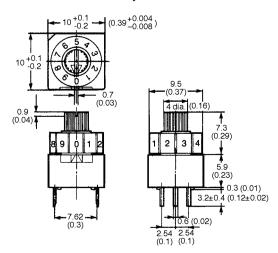
■ A6A-10RF, A6A-10CF



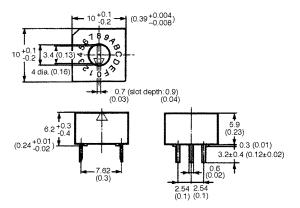
■ A6A-10RS, A6A-10CS



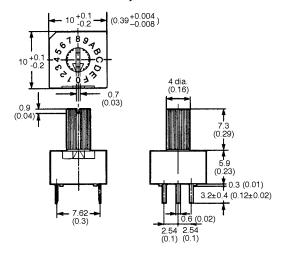
■ A6A-10RW, A6A-10CW



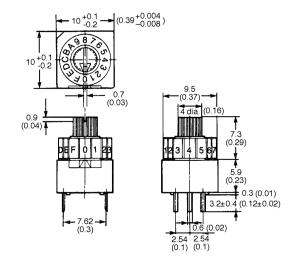
■ A6A-16RF, A6A-16CF



■ A6A-16RS, A6A-16CS



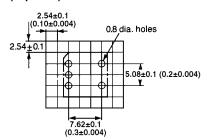
■ A6A-16RW, A6A-16CW



Terminal arrangement (bottom view)



Mounting holes (Top view)



Internal connections (top view)



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 (c) Seller will package Products as it deems proper for protection against normal handling and extra charges apply to special conditions.

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 - Use in consumer Products or any use in significant quantities.

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 - exhaustive list of applications for which particular attention must be given:

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ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

OMRON ELECTRONIC COMPONENTS LLC
55 E. Commerce Drive, Suite B

Schaumburg, IL 60173

847-882-2288

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