

ATE4/ATLE4

Washable

RoHS Compliant

Subminiature Toggle Switches With Locking Lever



UL

Features

1. Twin-contact clip mechanism for high reliability.
2. Process sealed structure

Specifications

Rating	Max.	50 mA 60VAC/DC
	Min.	1 μ A 20 mVAC/DC
	UL	48 VAC/DC 50mA
Initial contact resistance	100 m Ω max. (1.5 mA 200 μ VAC)	
Dielectric strength	500 VAC 1 minute	
Insulation resistance	500 M Ω min. (500 VDC)	
Electrical life	10,000 cycles at max. rating	
Operating temperature range	-20°C ~ +85°C	
Storage temperature range	-40°C ~ +85°C	

Part Numbering

A TLE 4 2 D - 2 M 3 - Z

Series code Actuator shape Type of box Number of poles Switching function Terminal style Actuator shape Bracket style

Code	Type	Fig.	Type of box	Fig.	Number of poles	Code	Switching function	Fig.	Terminal style	Code	Actuator shape	Fig.	Bracket
TE	Standard type	4	4 pole box	2	2 poles	D	ON - ON	2	PC Straight	M	Standard	3	Without bracket
TLE	Locking lever type	4	4 pole box	2	2 poles	E	ON - OFF - ON	6	Right angle(0.3 inch pitch)	M	Standard	4	With bracket

PC Hole Layouts

Type	Terminal style	PC Straight (Without bracket)
ATE42□-2M3-Z	2-poles	
ATE44□-2M3-Z	4-poles	

Type	Terminal style	PC Straight (With bracket)
ATE42□-2M4-Z	2-poles	
ATE44□-2M4-Z	4-poles	

■ PC Hole Layouts

Type	Terminal style	Right angle
ATE42□-6M3-Z	2-poles	
ATE44□-6M3-Z ATLE44□-6M3-Z	4-poles	

■ Packaging Specification

Plastick Pack	Standard type 50 pcs/pack	
ATE-2M type		
Plastick Pack	Right-angle type 50 pcs/pack	
ATE-6M type ATLE-2M type ATLE-6M type		

■ Type of Actuator

Standard type	Locking lever type

ATE (Subminiature Toggle Switch)

4PDT

PC Straight

Terminal numbers are not shown on the switch. PC hole Layouts

Switching function	Viewed from part No. marking side		
Part No.			
☆ ATE44E-2M3-Z	ON	OFF	ON
Connecting terminals	2-1 5-4 8-7 11-10	-	2-3 5-6 8-9 11-12

4PDT

PC Straight

(With bracket)

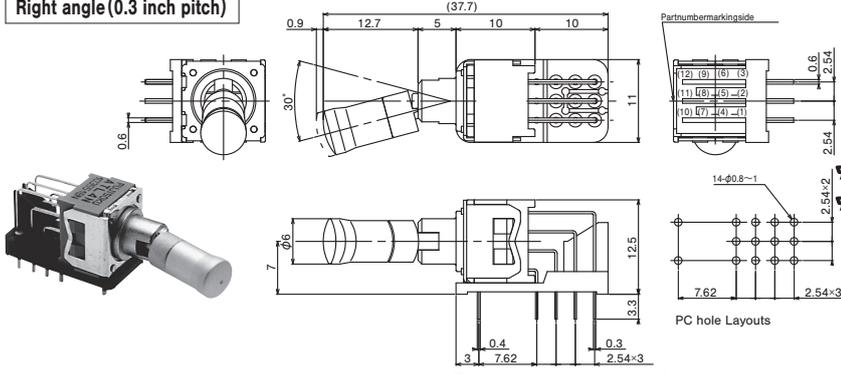
Terminal numbers are not shown on the switch. PC hole Layouts

Switching function	Viewed from part No. marking side		
Part No.			
☆ ATE44D-2M4-Z	ON	-	ON
Connecting terminals	2-1 5-4 8-7 11-10	-	2-3 5-6 8-9 11-12

4PDT

(Mounting height : 7mm)

Right angle (0.3 inch pitch)



Terminal numbers are not shown on the switch.

Switching function	Viewed from part No. marking side		
Part No.			
★ATLE44D-6M3-Z	ON	—	ON
★ATLE44E-6M3-Z	ON	OFF	ON
Connecting terminals	2-3 5-6 8-9 11-12	—	2-1 5-4 8-7 11-10

Standard Accessories

For Locking Lever Type

《Supplied separately》

Color Cap		
Dimensions	Color	Part No.
	Silver	140000470225

A Silver cap is attached to the switch.

Flux Cleaning

- (1) Solvent : Fluorine or Alcohol type.
- (2) Cleaning after soldering should be done after the terminal temperature falls to 90°C or below, or after leaving the switch for five minutes or longer at room temperature.

Soldering Specifications

- (1) Manual Soldering
 - Device : Soldering iron
 - 380°C, Max.; 3 seconds, Max.
- (2) Auto Soldering
 - Device : Jet wave type or dip type
 - 275°C, Max.; 6 seconds, Max.
- Pre-heating should be done at temperatures ranging from 80°C to 120°C and within 120 sec.

Mounting of Switch

- Do not bend the terminals before mounting the switch on the PC board.
- After mounting the switch, do not place the device in such a way that the device weight will be applied on to the actuator of the switch.
- Do not apply load exceeding 12.74 N to the knob.