

ATE4/ATLE4

Subminiature Toggle Switch With Locking Lever

Washable

FUJISOKU
SWITCHES



UL

RoHS Compliant

Features

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

Specifications

Rating	Max.	50mA 48VAC/DC
	Min.	1 μ A 20mVAC/DC
Initial contact resistance	100m Ω max. (1.5mA 200 μ VAC)	
Dielectric strength	500VAC 1 minute	
Insulation resistance	500M Ω min. (250VDC)	
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	4	D		—	2	M	3	—	Z
Series code		Actuator shape		Type of box		Number of poles		Switching function		Terminal style		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	Type of box	2	2 pole	D	ON — ON	2	P/C terminal	M	Standard	3	Without bracket
TLE	Locking lever type	None	Low profile	4	4 poles	E	ON—OFF—ON	5	Right angle			4	With bracket
						N	ON — ON	6	Right angle				

PC Hole Layouts

Type	Terminal style	P/C terminal (Without bracket)
ATE42□-2M3-Z ATLE42□-2M3-Z	2-pole	
ATE42□-2M3-Z ATLE44□-2M3-Z	4-pole	

Type	Terminal style	P/C terminal (With bracket)
ATE42□-2M3-Z ATLE42□-2M3-Z	2-pole	
ATE44□-2M4-Z ATLE44□-2M4-Z	4-pole	

PC Hole Layouts

Terminal style		Right angle
Type		
ATE42□-6M3-Z ATLE42□-6M3-Z	2-pole	
ATE44□-6M3-Z ATLE44□-6M3-Z	4-pole	

Packaging Specification

Plastick Pack	Standard type 50 pcs/pack
ATE-2M	
Plastick Pack	Right-angle type 50 pcs/pack
ATE-6M ATLE-2M ATLE-5M ATLE-6M	

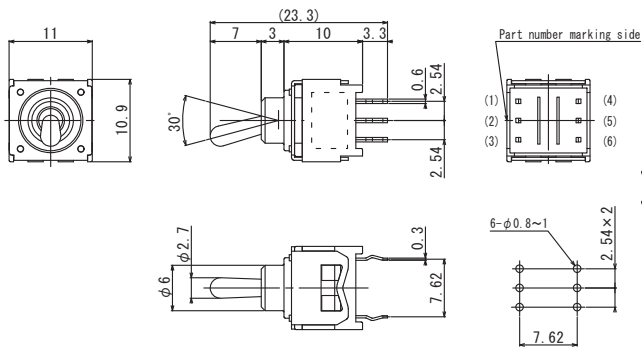
Type of Actuator

Standard type	Locking lever type

ATE(Subminiature Toggle Switch)

DPDT

PC

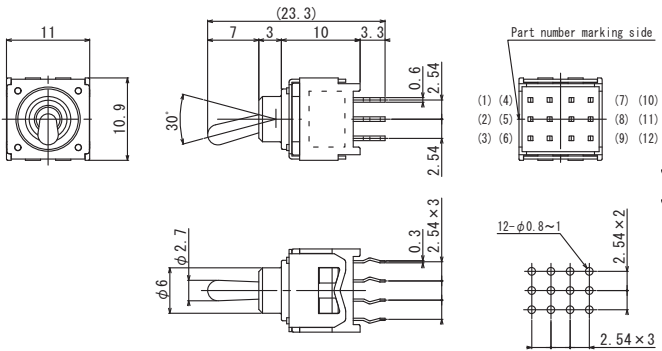


Terminal numbers are not shown on the switch. PC hole Layouts (Topview)

Switching function	Viewed from part No. marking side		
Part No.			
★ATE42D-2M3-Z	ON	—	ON
★ATE42E-2M3-Z	ON	OFF	ON
Connecting terminals	2-1 5-4	—	2-3 5-6

4PDT

PC



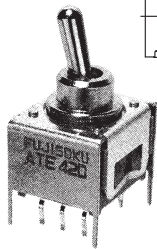
Terminal numbers are not shown on the switch. PC hole Layouts (Topview)

Switching function	Viewed from part No. marking side		
Part No.			
★ATE44D-2M3-Z	ON	—	ON
☆ATE44E-2M3-Z	ON	OFF	ON
Connecting terminals	2-1 5-4 8-7 11-10	—	2-3 5-6 8-9 11-12

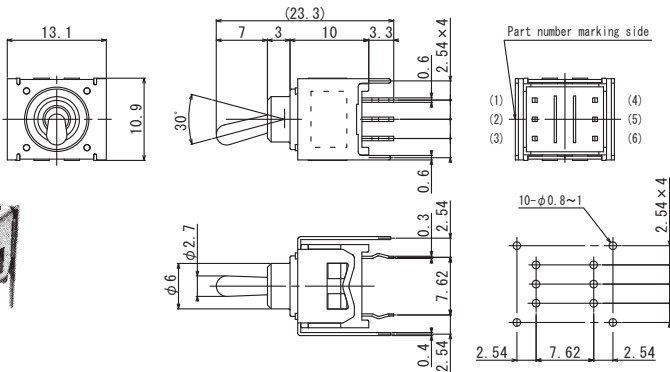
ATE(Subminiature Toggle Switch)

DPDT

PC



(With bracket)



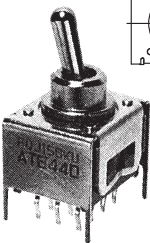
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PC hole Layouts (Topview)

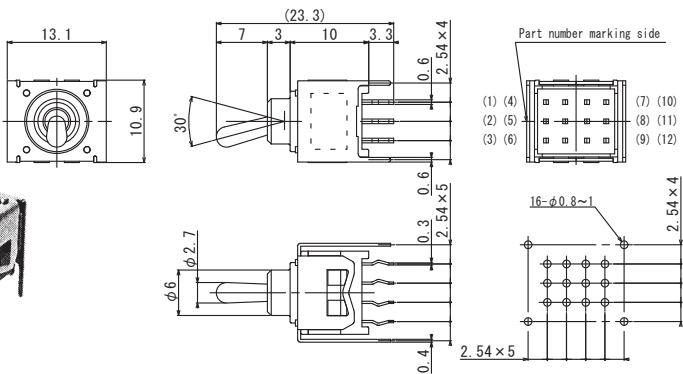
Switching function Part No.	Viewed from part No. marking side		
★ATE42D-2M4-Z	ON	—	ON
Connecting terminals	2—1 5—4	—	2—3 5—6

4PDT

PC



(With bracket)



Terminal numbers are not shown on the switch.

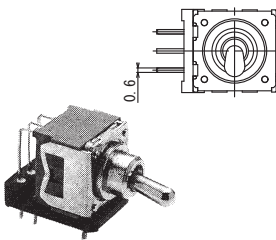
PC hole Layouts (Topview)

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

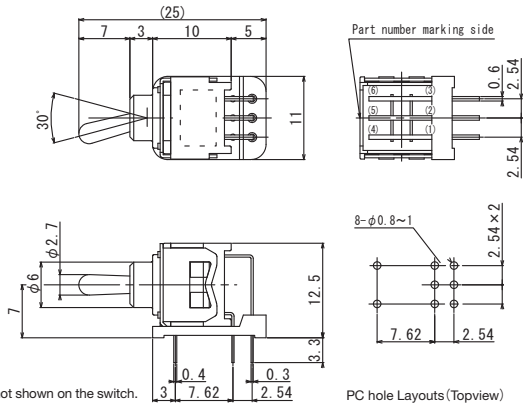
DPDT

(Mounting height : 7mm)

0.3R/A



Terminal numbers are not shown on the switch.



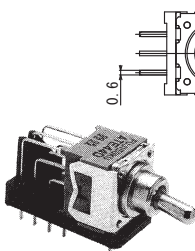
PC hole Layouts (Topview)

Switching function Part No.	Viewed from part No. marking side		
★ATE42D-6M3-Z	ON	—	ON
Connecting terminals	2—3 5—6	—	2—1 5—4

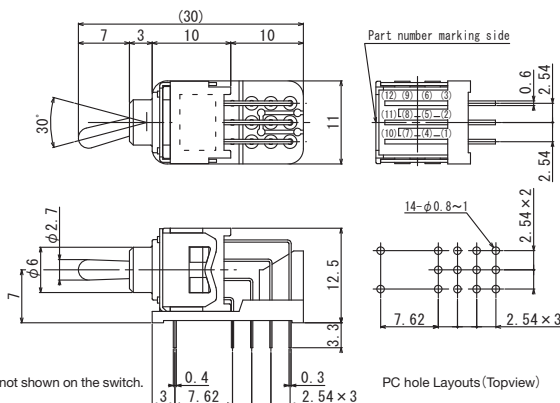
4PDT

(Mounting height : 7mm)

0.3R/A



Terminal numbers are not shown on the switch.



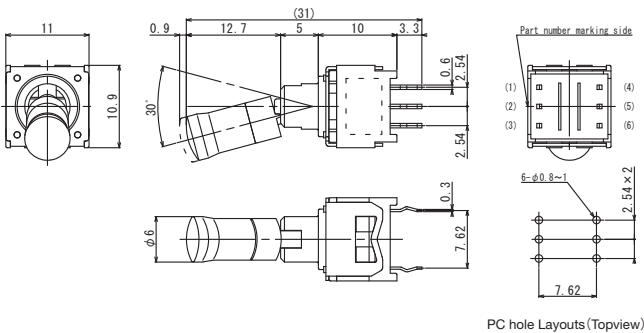
PC hole Layouts (Topview)

Switching function Part No.	Viewed from part No. marking side		
★ATE44D-6M3-Z	ON	—	ON
Connecting terminals	2—3 5—6 8—9 11—12	—	2—1 5—4 8—7 11—10

ATLE(Locking Lever Toggle Switch)

DPDT

PC



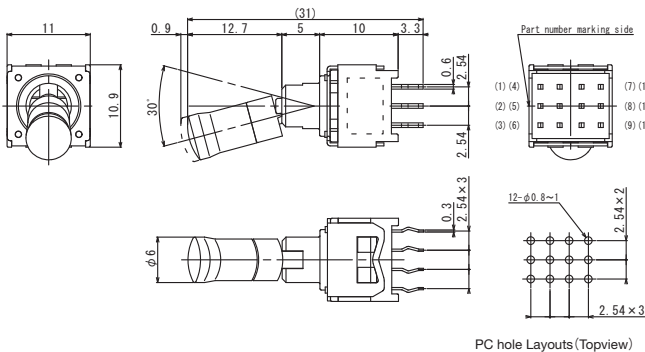
PC hole Layouts (Topview)

Terminal numbers are not shown on the switch.

Switching function Part No.	Viewed from part No. marking side		
★ATLE42D-2M3-Z	ON	—	ON
★ATLE42E-2M3-Z	ON	OFF	ON
Connecting terminals	2—1 5—4	—	2—3 5—6

4PDT

PC



PC hole Layouts (Topview)

Terminal numbers are not shown on the switch.

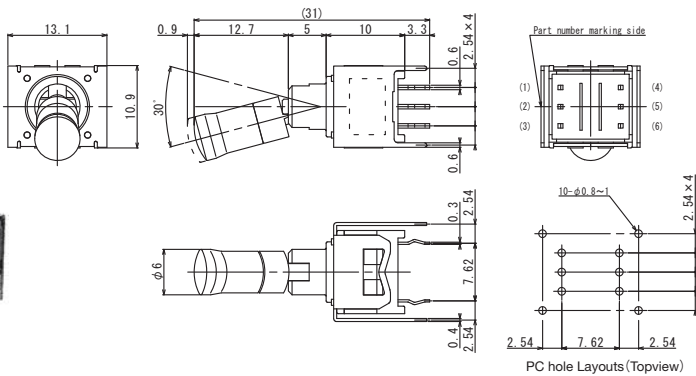
Switching function Part No.	Viewed from part No. marking side		
★ATLE44D-2M3-Z	ON	—	ON
★ATLE44E-2M3-Z	ON	OFF	ON
Connecting terminals	2—1 5—4 8—7 11—10	—	2—3 5—6 8—9 11—12

DPDT

PC



(With bracket)



PC hole Layouts (Topview)

Terminal numbers are not shown on the switch.

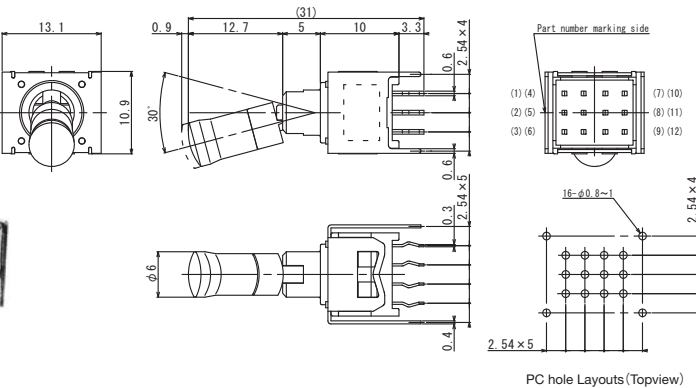
Switching function Part No.	Viewed from part No. marking side		
☆ATLE42D-2M4-Z	ON	—	ON
☆ATLE42E-2M4-Z	ON	OFF	ON
Connecting terminals	2—1 5—4	—	2—3 5—6

4PDT

PC



(With bracket)



PC hole Layouts (Topview)

Terminal numbers are not shown on the switch.

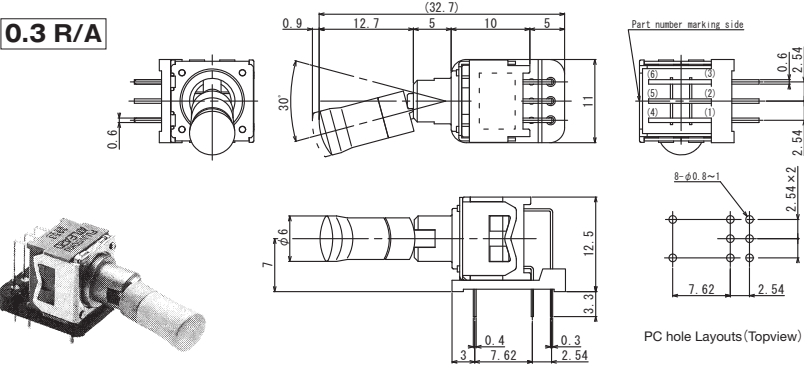
Switching function Part No.	Viewed from part No. marking side		
★ATLE44D-2M4-Z	ON	—	ON
★ATLE44E-2M4-Z	ON	OFF	ON
Connecting terminals	2—1 5—4 8—7 11—10	—	2—3 5—6 8—9 11—12

ATLE(Locking Lever Toggle Switch)

DPDT

(Mounting height : 7mm)

0.3 R/A



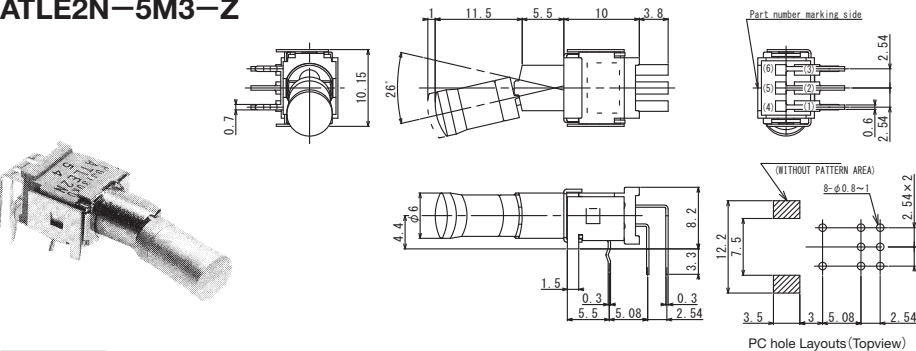
Switching function Part No.	Viewed from part No. marking side		
			
★ATLE42D-6M3-Z	ON	—	ON
★ATLE42E-6M3-Z	ON	OFF	ON
Connecting terminals	2—3 5—6	—	2—1 5—4

Terminal numbers are not shown on the switch.

DPDT

(Mounting height : 4.4mm)

ATLE2N—5M3—Z



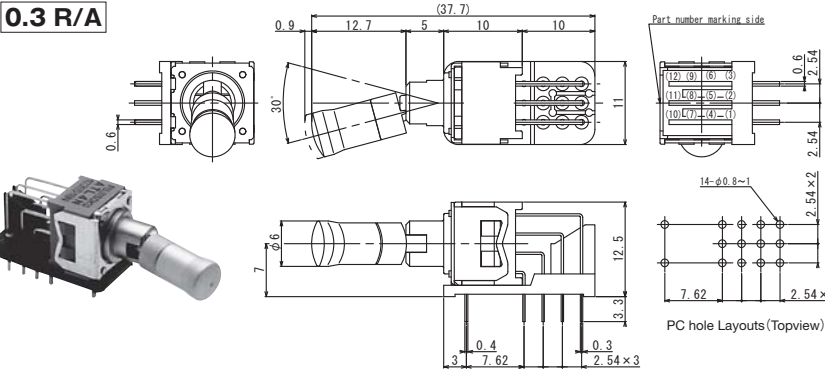
Switching function Part No.	Viewed from part No. marking side	
		
★ATLE2N-5M3-Z	ON	ON
Connecting terminals	2—3 5—6	2—1 5—4

Terminal numbers are not shown on the switch.

4PDT

(Mounting height : 7mm)

0.3 R/A



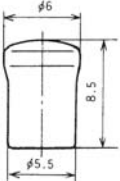
Switching function Part No.	Viewed from part No. marking side		
			
★ATLE42D-6M3-Z	ON	—	ON
★ATLE42E-6M3-Z	ON	OFF	ON
Connecting terminals	2—3 5—6 8—9 11—12	—	2—1 5—4 8—7 11—10

Terminal numbers are not shown on the switch.

■Standard Accessories

For Locking Lever Type

《Supplied separately》

Color Cap		
Dimensions	Color	Part No.
 Alumite finish Aluminium alloy	Silver	140000470225
	Red	140000470234
	Blue	140000470259
	Black	140000470260

A Silver cap is attached to the switch. Red, Blue, and Black caps are also available (sold separately).

■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.