ATE

Washable

RoHS Compliant



UL

Features -

1. Twin-contact clip mechanism for high reliability.

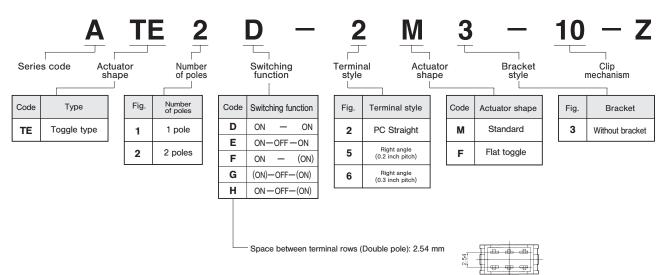
Subminiature Toggle Switches

- 2. Process sealed structure
- 3. Gold-plated contacts.
- 4. Terminal pin pitch: 2.54 mm.
- 5. Independent detent mechanism ensures light operational feel.
- 6. UL recognized

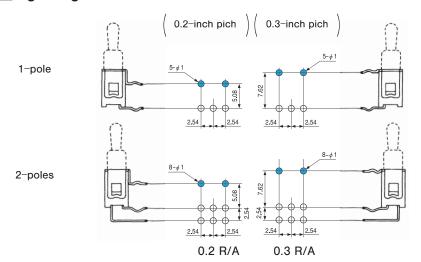
Specifications

Max.		50mA 60VAC/DC 0.4VA AC/DC		
Rating	Min.	1μA 20mVAC/DC		
	UL	48VAC/DC 50	mA	
Initial contact	t resistance	50mΩ Max.	(1.5mA 200µVAC)	
Dielectric	strength	250VAC 1 minute		
Insulation resistance		$500M\Omega$ min.	(500VDC)	
Electrical life		10,000 cycles at 0.4VA rating. 50,000 cycles at 0.4VA rating. (D.E type) 30,000 cycles at 0.4VA rating. (F.G.H type)		
Mechanical life		D.E type 50,000 cycles F.G.H type 30,000 cycles		
Operating temperature range		−20°C~+85°C		
Storage temperature range		−40°C~+85°C		

■ Part Numbering



■Right Angle Terminals



The space between the terminal rows are available in two dimensions: 0.2 inches (5.08 mm) and 0.3 inches (7.62 mm).

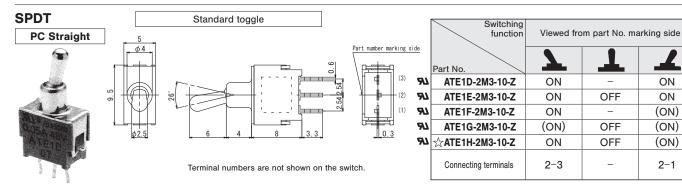
[Example] 0.2-inch pitch: ATE1D-5M3-10-Z 0.3-inch pitch: ATE1D-6M3-10-Z

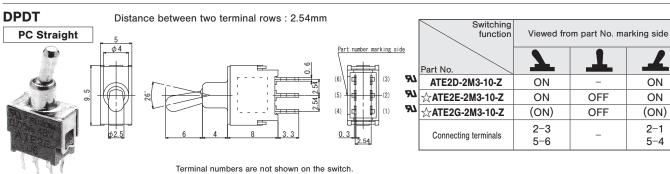
■Optional Accessories

Refer to PC Hole Layouts.

Part name		Bracket	
Poles	Single pole	Double	e poles
Box size	5 mm	7.5 mm	5 mm
Туре	ATE-2M • 2F		
Dimensions	10,15 \$\triangle 4.12 \] \[\text{S} \times \text{3} \times \	10.15 \$\frac{\phi 4.12}{\phi 4.12}\$ \$\text{\$\frac{\pi}{2}\$}\$ \$\text{\$\frac{\pi}{2}\$}\$ \$\frac{\pi}{2}\$ \$	10.15 ©4.12 3.5 11.5 2.54 2.54 5
Part number	140000640314	140000640315	140000640318

Type	ATE-2M•5M•6M
Part name	Color Cap
Dimensions	Gloss finish
White	140000470174
Red	140000470175
Black	140000470173
Gray	140000470179





ON

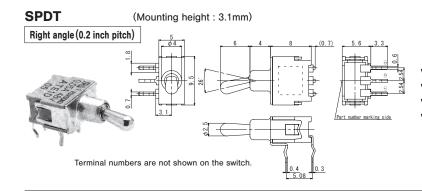
ON

(ON)

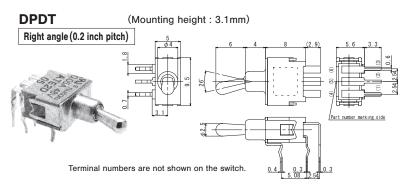
(ON)

(ON)

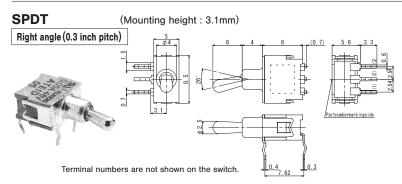
2-1



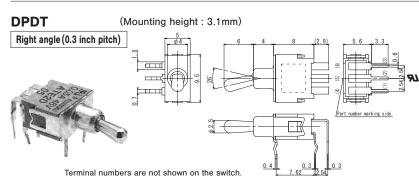
	0.75.55			
	Switching function	Viewed from part No. marking side		arking side
	Part No.	7	1	1
977	ATE1D-5M3-10-Z	ON	-	ON
9/	☆ATE1E-5M3-10-Z	ON	OFF	ON
9/	☆ATE1G-5M3-10-Z	(ON)	OFF	(ON)
9/	★ATE1H-5M3-10-Z	ON	OFF	(ON)
	Connecting terminals	2-3	_	2-1



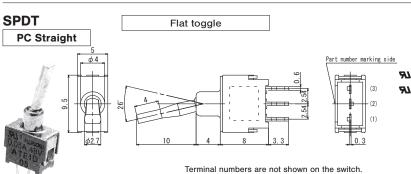
	Switching function	Viewed from part No. marking side		
	Part No.	7	1	1
97	☆ATE2D-5M3-10-Z	ON	-	ON
97	☆ATE2G-5M3-10-Z	(ON)	OFF	(ON)
	Connecting terminals	2-3 5-6	-	2-1 5-4



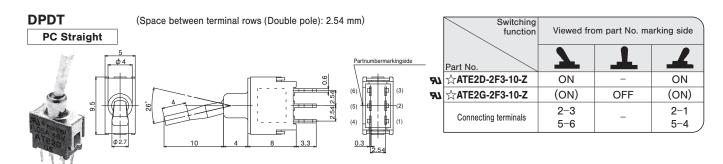
- 1	Switching			
	function	Viewed from part No. marking side		
	Part No.	7	1	
977	ATE1D-6M3-10-Z	ON	-	ON
977	ATE1E-6M3-10-Z	ON	OFF	ON
977	ATE1F-6M3-10-Z	ON	-	(ON)
977	☆ATE1G-6M3-10-Z	(ON)	OFF	(ON)
977	☆ATE1H-6M3-10-Z	ON	OFF	(ON)
	Connecting terminals	2-3	_	2-1

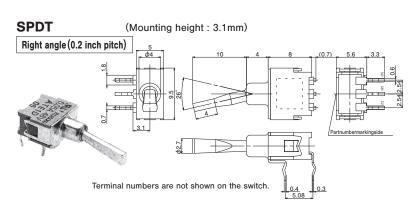


Switching function	Viewed from part No. marking side		
Part No.	7	1	1
ATE2D-6M3-10-Z	ON	-	ON
Connecting terminals	2-3 5-6	_	2-1 5-4



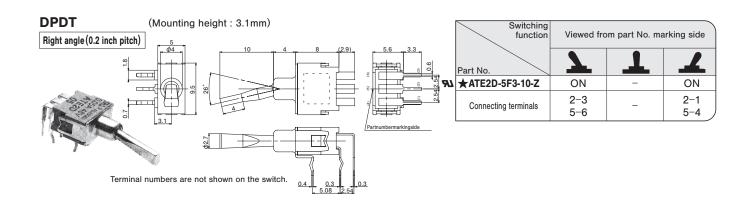
	Switching function	Viewed from part No. marking side		
	Part No.	7	1	1
<i>1</i> .R	ATE1D-2F3-10-Z	ON	_	ON
977	ATE1E-2F3-10-Z	ON	OFF	ON
	Connecting terminals	2-3	_	2-1

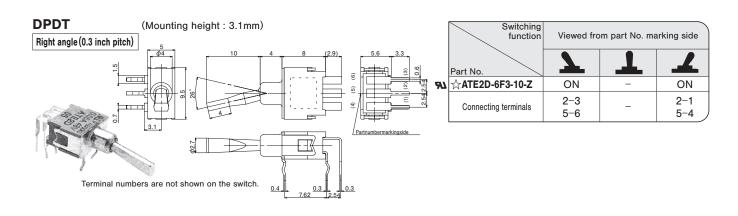




Terminal numbers are not shown on the switch.

	Switching function		om part No. ma	arking side
	Part No.	7	1	
977	★ATE1G-5F3-10-Z	(ON)	OFF	(ON)
977	★ATE1H-5F3-10-Z	ON	OFF	(ON)
	Connecting terminals	2-3	_	2-1





■PC Hole Layouts -

PC Straight

(Top voew)

	ATE-2M·2F	ATE-2M·2F		
Installation	Whithout bracket	When optional bracket is used		
installation	whithout bracket	140000640314	140000640315	140000640318
1-pole	3-\$1 2.54 2.54	2.54 2.54 2.54 2.54	2.54 2.54 2.54 7. \$1	2.54 2.54 2.54 2.54 7- \$\psi 1
2-poles Tow terminal rows	2.54 2.54 6- \$1	2.54 2.54 2.54 8-\$1	2.54 2.54 2.54 10. ≠1	2.54 2.54 2.54 10- \$1

■ Right Angle terminal · Vertical Mount terminal

(Top view)

	ATE-5M · 5F	ATE-6M·6F
Terminal	R/A 0.2-inch pich	R/A 0.3-inch pich
1-pole	5.08 5.08	7.62 5- \$1
2-poles	5.08 2.54 8- \$1	7.62 2.54 8- \$\psi\$ 1

■Bracket Mounted Dimensions. —

Time	ATE-2M	ATE-2F	
Туре	Standard	Flat	
Dimensions	8.3	8.3 3.7 10	

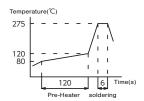
■Soldering Specifications

(1)Manual Soldering

Device: Soldering iron 380°C, Max.; 3 seconds, Max.

(2)Auto Soldering

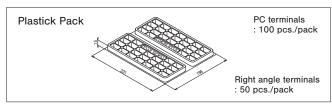
Device: Jet wave type or dip type 275°C, Max.; 6 seconds, Max.



Pre-heating should be done at temperatures ranging from 80°C to 120°C and within 120 seconds

(3)Install the cap/rocker accessory after soldering and cleaning.

■ Packaging Specifications



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.

■Mounting of Switch -

- ●Use PC boards with hole diameter of 1mm.
- Do not bend the terminal pins 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 12.7 N to the actuator.

