

# Washable

# **Ultra-Miniature Toggle Switch**

**RoHS Compliant** 



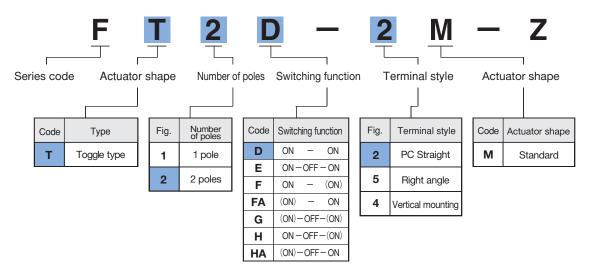
#### Features -

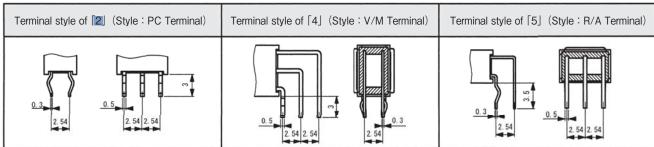
- 1. Ultra-miniature toggle switch for high density mounting.
- 2. Washable.
- 3. Terminal pin pitch: 2.54 mm.
- 4. Independent detent mechanism ensures light operational feel.
- 5. Clip contact mechanism for long-term contact reliability.
- 6. Gold-plated contacts.

#### ■ Specifications

Rating	Max.	28VDC 0.4VA ma	IX.
	Min.	1μ A 20mVDC	
Initial contact resistance		100mΩ max.	$(1.5 \text{mA} 200 \mu \text{ VAC})$
Dielectric strength		250VAC 1 minute	
Insulation resistance		500MΩ min.	(250VDC)
Electrical life		10,000 cycles at max. rating 50,000 cycles at min. rating ( <b>D,E</b> type) 30,000 cycles at min. rating ( <b>F,G,H</b> type)	
Operating temperature range		−40°C~+85°C	
Storage temperature range		−40°C~+85°C	

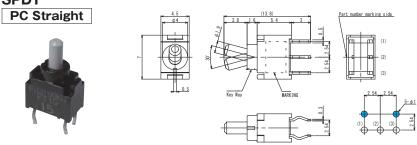
#### Part Numbering



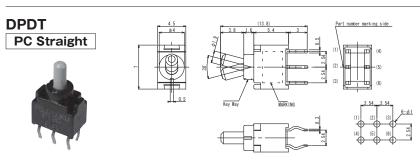


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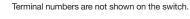




Switching function  Part No.	Key	Кеу	<u> </u>
FT1D-2M-Z	ON	_	ON
☆FT1E-2M-Z	ON	OFF	ON
☆FT1F-2M-Z	ON	_	(ON)
★FT1G-2M-Z	(ON)	OFF	(ON)
▲FT1H-2M-Z	ON	OFF	(ON)
Connecting terminals	2-3	<u>-</u>	2-1

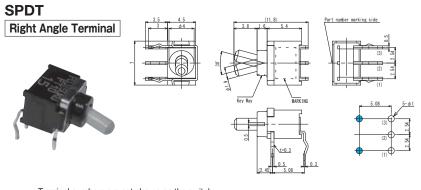


Switching function Part No.	Key	Key	Key
FT2D-2M-Z	ON	_	ON
☆FT2E-2M-Z	ON	OFF	ON
★FT2F-2M-Z	ON	_	(ON)
★FT2G-2M-Z	(ON)	OFF	(ON)
★FT2H-2M-Z	ON	OFF	(ON)
Connecting terminals	2-3 5-6	-	2-1 5-4

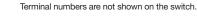


Terminal numbers are not shown on the switch.





Switching function Part No.	Key	A Key	Key
FT1D-5M-Z	ON	_	ON
FT1E-5M-Z	ON	OFF	ON
☆FT1F-5M-Z	(ON)	_	ON
★FT1FA-5M-Z	ON	_	(ON)
☆FT1G-5M-Z	(ON)	OFF	(ON)
★FT1H-5M-Z	(ON)	OFF	ON
▲FT1HA-5M-Z	ON	OFF	(ON)
Connecting terminals	2-1	_	2-3

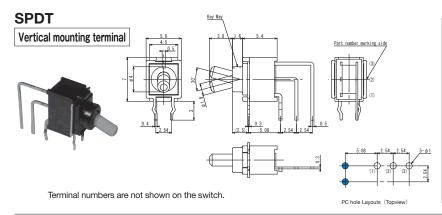


PC hole Layouts (Topview)

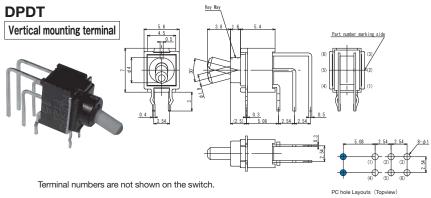
וטפט		
Right Angle Terminal	3.8 1.6 5.4	Part number marking side
		(6) (7) (7) (8) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7
	Key Nay MARK ING	5.08 2.54 3.40 1 (3) (6) 3/ (2) (5) 3/ (1) (4)
Terminal numbers are not shown on the s		PC hole Layouts (Topview)

Switching function Part No.	Key	Key	Key
☆FT2D-5M-Z	ON	_	ON
★FT2E-5M-Z	ON	OFF	ON
★FT2F-5M-Z	(ON)	ı	ON
▲FT2FA-5M-Z	ON	-	(ON)
▲FT2G-5M-Z	(ON)	OFF	(ON)
▲FT2H-5M-Z	(ON)	OFF	ON
▲FT2HA-5M-Z	ON	OFF	(ON)
Connecting terminals	2-1 5-4	_	2-3 5-6

#### FT



Switching function Part No.	Key	Key	<b>A</b> Key
☆FT1D-4M-Z	ON	_	ON
★FT1E-4M-Z	ON	OFF	ON
★FT1F-4M-Z	ON	_	(ON)
▲FT1FA-4M-Z	(ON)	_	ON
▲FT1G-4M-Z	(ON)	OFF	(ON)
▲FT1H-4M-Z	ON	OFF	(ON)
▲FT1HA-4M-Z	(ON)	OFF	ON
Connecting terminals	2-3	_	2-1



Pa	Switching function art No.	Key	Key	Key
	FT2D-4M-Z	ON	_	ON
*	FT2E-4M-Z	ON	OFF	ON
*	FT2F-4M-Z	ON	_	(ON)
	FT2FA-4M-Z	(ON)	_	ON
	FT2G-4M-Z	(ON)	OFF	(ON)
· 🔺	FT2H-4M-Z	ON	OFF	(ON)
	FT2HA-4M-Z	(ON)	OFF	ON
Co	onnecting terminals	2-3 5-6	_	2-1 5-4

# ■ Soldering Specifications

(1)Manual Soldering

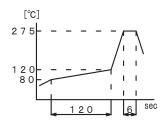
Device : Soldering iron

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 from 80 to 120°C and within 120 sec.



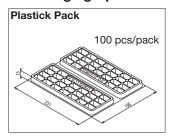
(3)When soldering two or more terminals to a common land, use solder resist to separate them.

# Flux Cleaning -

(1)Solvent: Fluorine or Alcohol type.

- (2)Cleaning after soldering should be done after the PC board is exposed to room temperature (30°C or below) for 1 to 2 hours.
- (3)Do not use ultrasonic cleaning.

# ■Packaging Specifications -



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