#### 查询T101KTDZKE供应商

# **C&K T Series Subminiature Toggle Switches**

#### Features/Benefits

- Compact size—small footprint
- Single and double pole models
- PC and panel mount options available
- RoHS compliant models available

#### Typical Applications

- Hand-held telecommunications
- Instrumentation
- Medical equipment



#### **Specifications**

CONTACT RATING: B contact material: 0.4 VA max. @ 20 V AC or DC max. Q contact material (TX01 models): 3 AMPS @ 120 V AC or 28 V DC. All other models: 2 AMPS @ 120 V AC or 28 V DC. See page G-42 for additional ratings.

ELECTRICAL LIFE: TX01 models: 60,000 make-and-break cycles at full load. All other models: 30,000 cycles.

CONTACT RESISTANCE: Below 20 m  $\Omega$  typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE:  $10^9 \Omega$  min.

DIELECTRIC STRENGTH: 1000 Vrms min. @ sea level. OPERATING TEMPERATURE: -30°C to 85°C.

SOLDERABILITY: Per MIL-STD-202F method 208D, or EIA RS-186E method 9 (1 hour steam aging).

NOTE: Any models supplied with P, R, Q, B or G contact material are RoHS compliant and compatible. For the latest information regarding RoHS compliance, please go to: www.ittcannon.com/rohs.

NOTE: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

#### **Materials**

CASE: Glass filled nylon 6/6, flame retardant, heat stabilized or diallyl phthalate (DAP), (UL 94V-0).

ACTUATOR: Brass, chrome plated. BUSHING: Brass, nickel plated.

HOUSING: Stainless steel.

SWITCH SUPPORT: Brass, matte-tin plated.

END CONTACTS: B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Coin silver, silver plated. See above for additional contact materials.

CENTER CONTACTS & TERMINALS: B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Copper alloy, silver plated. See page G-42 for additional contact materials.

TERMINAL SEAL: Epoxy.

HARDWARE: Nut & Locking Ring: Brass, nickel plated.

Lockwasher: Steel, nickel plated. Additional hardware available

separately, see Section O.

## **Build-A-Switch**

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages G-37 thru G-42. For additional options not shown in catalog, consult Customer Service Center. All models have epoxy terminal seal and are compatible with all "bottom-wash" PCB cleaning methods.

#### Switch Function

T101 SPDT On-None-On T102 SPDT Off-None-On

T103 SPDT On-Off-On T105 SPDT Mom.-Off-Mom.

T107 SPDT On-Off-Mom. T201 DPDT On-None-On

T205 DPDT Mom.-Off-Mom.

#### **Actuator**

P3 Flatted,

anti-rotation, .490" high

.370" high

Locking lever, round tip

L1 .620" high M1 .220" high

**S1** .410" high

#### **Bushing**

H .220" high, threaded, flat

.220" high, unthreaded, flat

CF Splashproof, .310" high, threaded, flat

D9 .260" high, unthreaded, keyway

.310" high, threaded, flat

.310" high, unthreaded, flat TD .260" high, threaded, keyway

TK .310" high, threaded, keyway

.220" high, threaded, keyway

Y9 .220" high, unthreaded, keyway

### **Terminations**

Right angle, PC thru-hole

Vertical right angle,

PC thru-hole

PC Thru-hole

V3 Vertical mount V-bracket

Solder lug

Wire wran

#### **Contact Material**

#### В Gold

Gold, tin-lead K

Gold, matte tin

Q Silver

Gold over silver G

Gold over silver, tin-lead

Gold over silver, matte-tin





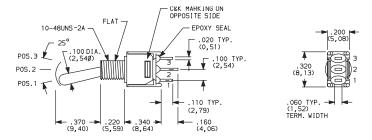
Seal

**E** Epoxy

## 

		SWITCH FUNCTION CONNECTED TERMINALS				ALS			
		POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3		
		7	1	4	<b>1</b>	1			
NO. POLES	MODEL NO.	C&K marking on opposite side			C&K marking on opposite side				SCHEMATIC
	T101	ON	NONE	ON	2-3	N/A	2-1		
SP	T103	ON	OFF	ON	2-3	OPEN	2-1	Q2 (COMM)	
	T105	мом.	OFF	MOM.					1 ● <b>\</b> ●3
	T107	ON	OFF	мом.				SPDT	
	T102	OFF	NONE	ON	OPEN	N/A	3-1	SPST	1 • • 3

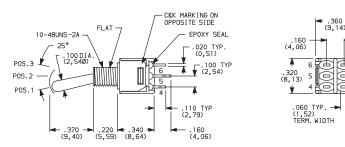
#### SPDT



Part number shown: T101SHZQE

DP	T201	ON	NONE	ON	2-3,5-6	N/A	2-1,5-4	<b>Q</b> 2 (COMM) 5 <b>Q</b>
	T205	мом.	OFF	MOM.	2-3,5-6	OPEN	2-1,5-4	1 ● <b>③</b> 3 4 ● <b>⑤</b> 6  DPDT

#### **DPDT**



Terminal Nos. For Reference Only

Part number shown: T201SHZQE

MOM. = Momentary

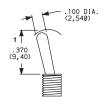
All models with all options when ordered with G, L, R or Q contact material.





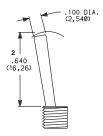
#### **ACTUATOR**

.370" HIGH

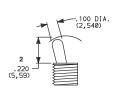


Standard with Z, C or W terminations

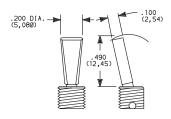
.620" HIGH



**M**1 .220" HIGH (with "T" bushing)

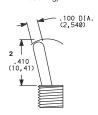


ANTI-ROTATION, FLATTED, .450" HIGH



Available with T & T9 bushings only. Dress nut part number 709901201 supplied standard with threaded bushing.

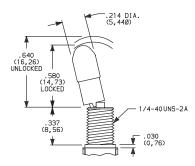
.410" HIGH (with "T" bushing)



- <sup>1</sup> Actuator shown with standard H bushing. Subtract .040 (1,02) for TD and D9 bushings, subtract .090 (2,29) for T, T9, TK, K9 &CF bushings.
- <sup>2</sup> Actuators shown with T, T9, TK & CF bushings, add .050 (1,27) for TD and D9 bushings, add .090 (2,29) for H, H9, Y & Y9 bushings.

All actuators have chrome finish (except K).

LOCKING LEVER



#### Not available with CF bushing option.

.220" HIGH THREADED. FLAT

10-48UNS-2A

H standard with C, W & Z terminations. H9 standard with A, AV & V3 terminations.

.220" HIGH UNTHREADED, FLAT

Bushing option code not required. Not available with TX05 & TX07 models.

## Locking Positions



2 Position lock





-03 & -11 Models 3 Position lock



-08 Models 1 Position lock

K actuators have natural aluminum finish.

Keyway on right side. To prevent accidental actuation, toggles must be lifted before being actuated. When released, toggles again lock in place. Overtightening mounting nut may cause actuator to bind.

## **BUSHING**

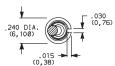


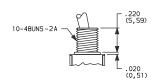


.310" HIGH THREADED, FLAT

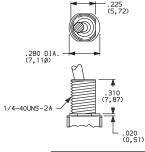
.220" HIGH UNTHREADED, KEYWAY

.220" HIGH THREADED, KEYWAY





.310" HIGH UNTHREADED, FLAT





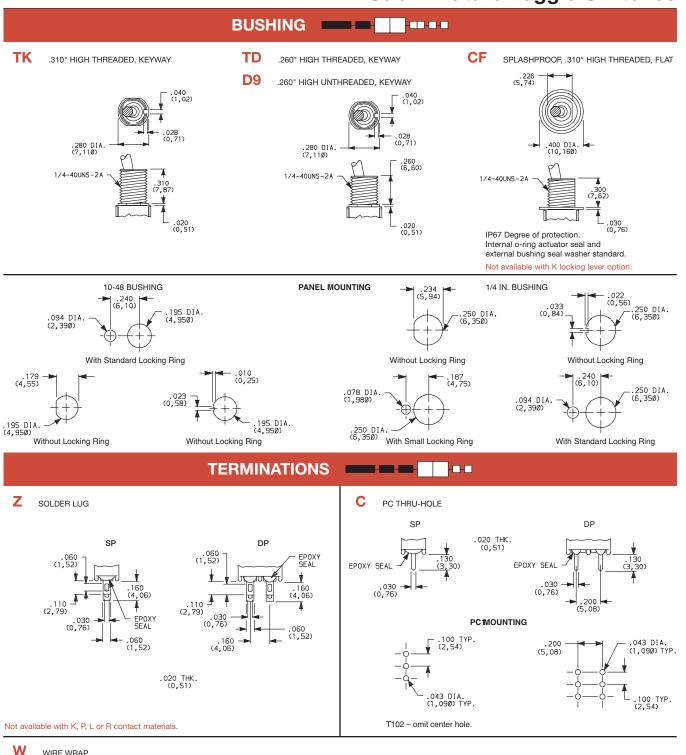
Dimensions are shown: Inch (mm) Specifications and dimensions subject to change



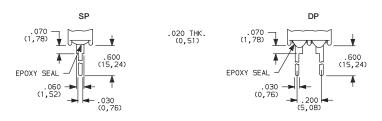
Н







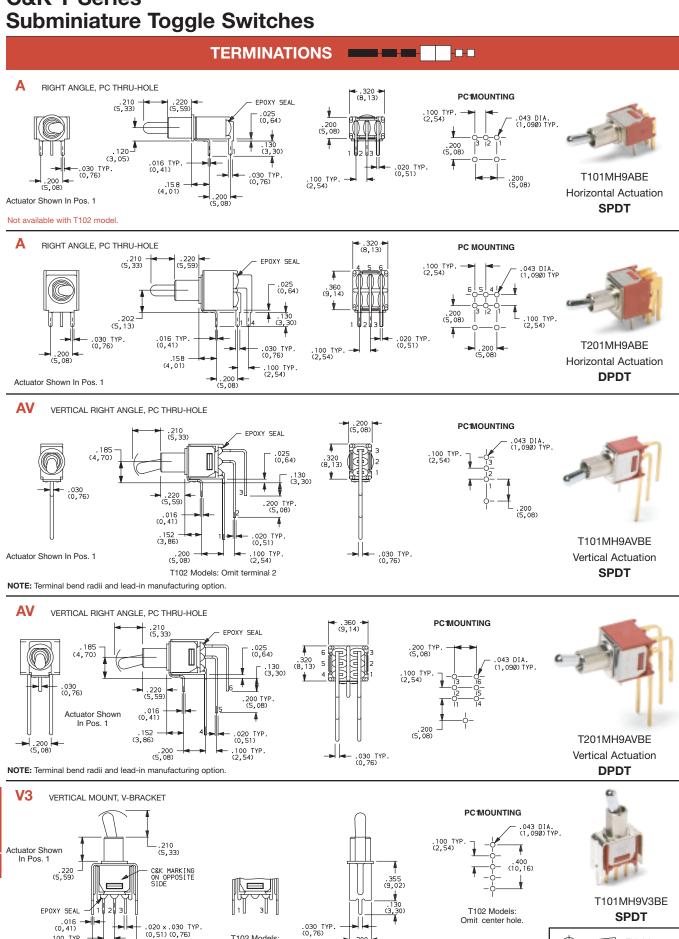








# **C&K T Series**



T102 Models:

Omit terminal 2

Third Angle

Dimensions are shown: Inch (mm)

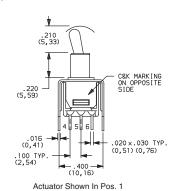
Specifications and dimensions subject to change

# TERMINATIONS ----

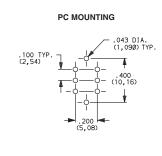
VERTICAL MOUNT, V-BRACKET



T201MH9V3BE **DPDT** 



EPOXY SEAL



## **CONTACT MATERIAL**

OPTION1 RoHS1 RoHS1 CODE COMPLIANT COMPATIBLE		CONTACT1 MATERIAL	TERMINAL PLATING		RATINGS		
В	YES	YES		GOLD <sup>1</sup>	LOW LEVEL/		
K	NO	YES	GOLD <sup>1</sup>	TIN-LEAD 6	DRY CIRCUIT	0.4 VA MAX. @ 20 V AC OR DC MAX.	
Р	YES	YES		MATTE-TIN <sup>7</sup>			
Q	YES	YES	SILVER <sup>4,5</sup>	SILVER <sup>5</sup>	POWER	TX01 MODELS: 3 AMPS @ 120 V AC OR 28 V DC. ALL OTHER MODELS: 2 AMPS @ 120 V AC OR 28 V DC.	
G	YES	YES		GOLD 3	LOW LEVEL/DRY CIRCUIT OR POWER	TX01 MODELS: 0.4 VA MAX @ 20 V AC OR DC MAX. OR	
L	NO	YES	GOLD OVER SILVER 2,3	TIN-LEAD 6		3 AMPS @ 120 V AC OR 28 V DC. ALL OTHER MODELS: 0.4 VA MAX @ 20 V AC OR DC MAX.	
R	YES	YES	SILVER 2,5	MATTE-TINI 7	SSS SITT OWER	OR 2 AMPS @ 120 V AC OR 28 V DC	

<sup>\*</sup> Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

- <sup>1</sup> CONTACTS & TERMINALS: Copper alloy, with gold plate over nickel plate.
- $^{2}\ \mbox{END}$  CONTACTS: Coin silver, with gold plate over nickel plate.
- <sup>3</sup> CENTER CONTACTS & ALL TERMINALS: Copper alloy, with gold plate
- $^{\rm 4}$  END CONTACTS: Coin silver, silver plated.
- <sup>5</sup> CENTER CONTACT & ALL TERMINALS: Copper alloy, silver plated.
- <sup>6</sup> TERMINALS: Copper alloy, with tin-lead alloy over nickel plate.
- $^{7}$  TERMINALS: Copper alloy, with matte-tin over nickel plate.

NOTE: Any models supplied with P, R, Q, B or G contact material are RoHS compliant. For the latest information regarding RoHS compliance, please go to: www.ittcannon.com/rohs.

All models with all options when ordered with R, G, L or Q contact material.

B contact material standard with A, AV, V3 & W terminations.

Q contact material standard with C & Z terminations.

#### **SEAL**

EPOXY SEAL

