

# C&K TDA Series

## Ultra-miniature Surface Mount Half-pitch DIP Switches

### Features/Benefits

- **Bifurcated contact for increased electrical reliability**
- **Tin-lead plated terminals for reliable solder coverage**
- **Process sealed for surface mount soldering and washable processing**
- **RoHS compliant - options available**

### Typical Applications

- **Hand-held electronic devices**
- **Portable computer and electronic devices**
- **Instrumentation and controls**



### How To Order

Complete part numbers for TDA Series are shown below. All switches supplied in "OFF" position.

### Specifications

SWITCH FUNCTION: SPST – 2, 4, 6, 8 & 10 positions.

CONTACT RATING:

24 V DC, 25 mA (switching).

50 V DC, 100 mA (steady state).

MECHANICAL AND ELECTRICAL LIFE: 1,000 cycles.

CONTACT RESISTANCE: 100 milliohms max.

INSULATION RESISTANCE: 100 megohms @ 100 V DC min.

DIELECTRIC STRENGTH: 300 V AC min.

STORAGE TEMPERATURE: -40°C to 85°C.

OPERATING TEMPERATURE: -20°C to 85°C.

OPERATING FORCE: 4,9N max.

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

PACKAGING: Switches supplied in rigid dispensing tubes in full tube quantities only, this may affect order quantity. Numbers of switches per tube varies with model. Tape and reel packaging also available.

### Materials

CASE & COVER: Tin Lead, Version PPA (UL94V-0)

RoHS, Version PPS (UL94V-0)

ACTUATOR: LCP (UL94V-0).

CONTACTS: Copper alloy, with gold plate over nickel plate.

TERMINALS: Copper alloy, with tin-lead alloy over nickel plate.

RoHS version, copper alloy, with gold flash over nickel plate.

All terminals are insert molded.

TAPE SEAL: Polyimide.

**NOTE:** For the latest information regarding RoHS compliance, please go to:  
[www.ittcannon.com/rohs](http://www.ittcannon.com/rohs).

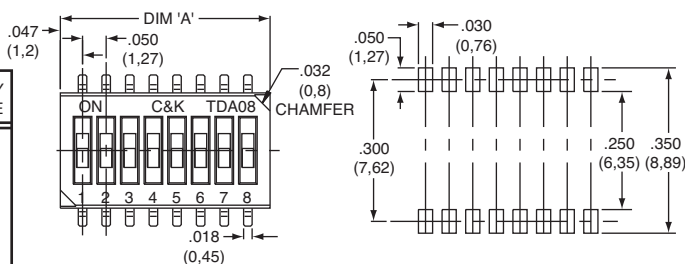
**Note:** Specifications and materials listed above are for switches with standard options.  
For information on specific and custom switches, consult Customer Service Center.

### Tube Package

ROHS PART NUMBER	TIN LEAD PART NUMBER	NO. POS.	DIM. 'A'	QUANTITY PER TUBE
<b>TDA02H0SB1</b>	<b>TDA02H0SK1</b>	2	.144 (3,67)	125
<b>TDA04H0SB1</b>	<b>TDA04H0SK1</b>	4	.244 (6,21)	70
<b>TDA06H0SB1</b>	<b>TDA06H0SK1</b>	6	.344 (8,75)	50
<b>TDA08H0SB1</b>	<b>TDA08H0SK1</b>	8	.444 (11,29)	40
<b>TDA10H0SB1</b>	<b>TDA10H0SK1</b>	10	.544 (13,83)	30

Schematic

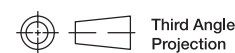
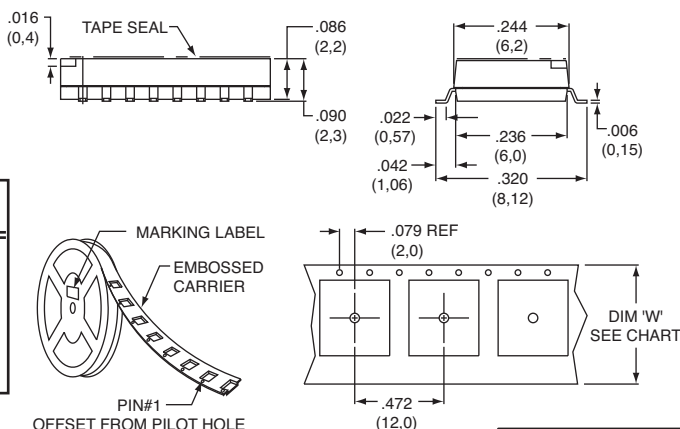
SPST



TDA08H0SK1

### Tape & Reel Package

ROHS PART NUMBER	TIN LEAD PART NUMBER	NO. POS.	DIM. 'W'	QUANTITY PER TUBE
<b>TDA02H0SB1R</b>	<b>TDA02H0SK1R</b>	2	.630 (16,0)	2000
<b>TDA04H0SB1R</b>	<b>TDA04H0SK1R</b>	4	.630 (16,0)	2000
<b>TDA06H0SB1R</b>	<b>TDA06H0SK1R</b>	6	.630 (16,0)	2000
<b>TDA08H0SB1R</b>	<b>TDA08H0SK1R</b>	8	.945 (24,0)	2000
<b>TDA10H0SB1R</b>	<b>TDA10H0SK1R</b>	10	.945 (24,0)	2000



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