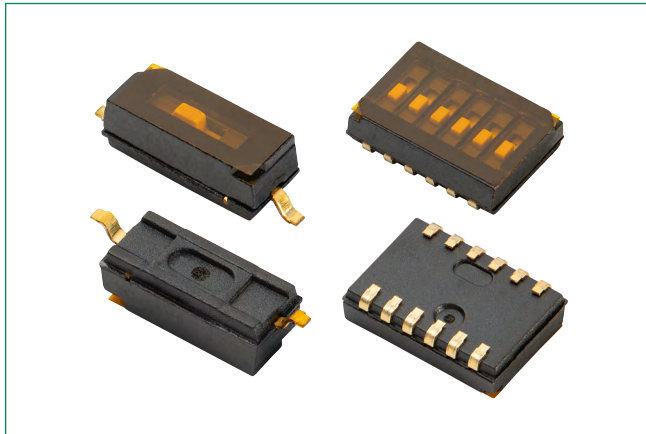


# TDA Series

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



**NOT RECOMMENDED FOR NEW DESIGN** REPLACED BY:  
TDB Series



### Description

The TDA series ultra-miniature surface mount half-pitch DIP switch from has bifurcated contact for increased electrical reliability and is process sealed for surface mount soldering and washable processing. TDA switches are found in hand-held electronic devices, portable computers, and various forms of instrumentation and controls.

### Features & Benefits

- Bifurcated contact for increased electrical reliability
- Process sealed for surface mount soldering and washable processing
- RoHS compliant

### Applications

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

### Specifications

|                        |   |
|------------------------|---|
| <b>Switch Function</b> | SPST - 1, 2, 4, 6, 8, 10 positions  |
| <b>Contact Rating</b>  | 24 V DC, 25 mA (switching)<br>50 V DC, 100 mA (steady state)  |
| <b>Packaging</b>       | 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 quantity varies with model. |

### Electrical & Mechanical Characteristics

|                                       |                        |
|---------------------------------------|------------------------|
| <b>Mechanical and Electrical Life</b> | 1,000 cycles           |
| <b>Contact Resistance</b>             | 100 mΩ max.            |
| <b>Insulation Resistance</b>          | 100M Ω @ 100 V DC min. |
| <b>Dielectric Strength</b>            | 300 V AC min.          |

### Environmental Characteristics

|                              |               |
|------------------------------|---------------|
| <b>Storage Temperature</b>   | -40°C to 85°C |
| <b>Operating Temperature</b> |               |
| <b>Operating Force</b>       | 4.9N max.     |

### Process

|                  |   |
|------------------|---|
| <b>Soldering</b> | Per MIL-STD-202F method 208D, or EIA RS-186E method 9 (1 hour steam aging). |
|------------------|---|

### Materials

|                         |   |
|-------------------------|---|
| <b>Case &amp; Cover</b> | PPS (UL 94 V-0)   |
| <b>Actuator</b>         | LCP (UL 94 V-0)   |
| <b>Contacts</b>         | Copper alloy with gold plate over nickel plate.                                   |
| <b>Terminals</b>        | Copper alloy, with gold flash over nickel plate. All terminals are insert molded. |
| <b>Tape Seal</b>        | Polyimide   |

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

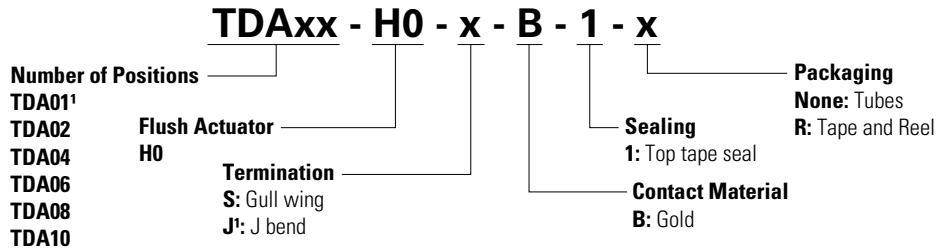
# TDA Series

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



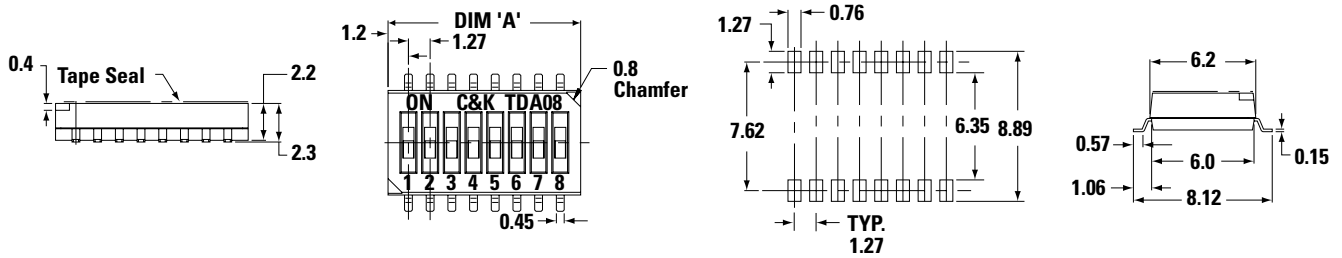
### Ordering Number

Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box. All switches supplied in "OFF" position.

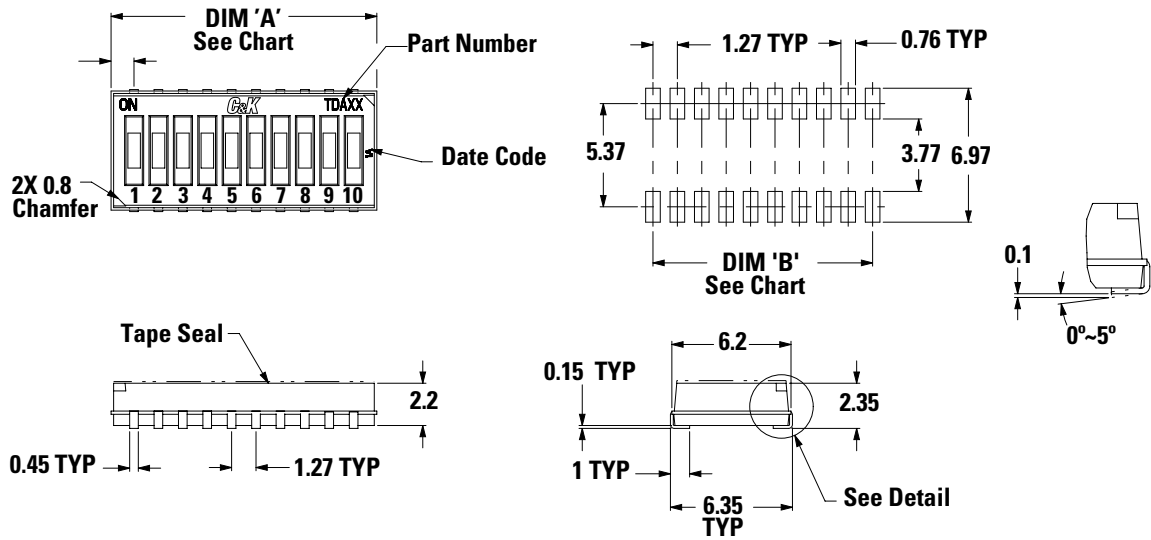


**Notes:**  
TDA01H0JB1R is not available, TDA01 only offered in tape and reel

### TDA08H0SB1 (mm)

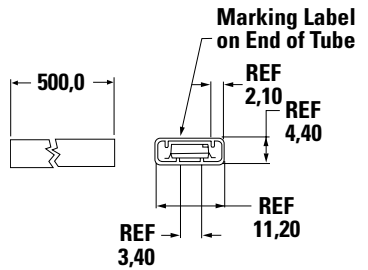


### TDA10H0JB1 (mm)

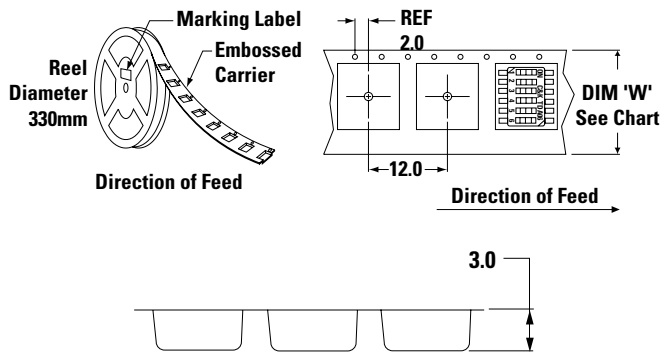


# TDA Series

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



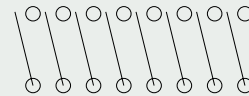
### TDAXXH0SB1R (XX=02 to 10)



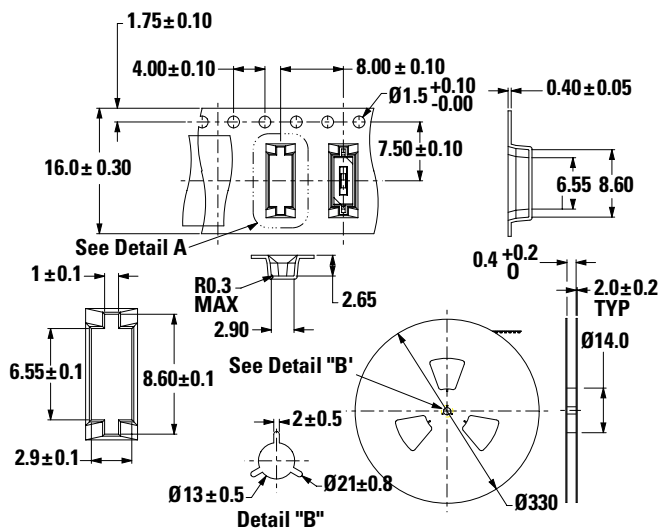
### Tube Package

| ROHS Part # | No. Pos. | DIM 'A' | DIM "B" | Quantity per Tube |
|-------------|----------|---------|---------|-------------------|
| TDA01H0SB1  | 1        | 2.40    |         | N/A               |
| TDA02H0_B1  | 2        | 3.67    | 1.27    | 125               |
| TDA04H0_B1  | 4        | 6.21    | 3.81    | 70                |
| TDA06H0_B1  | 6        | 8.75    | 6.35    | 50                |
| TDA08H0_B1  | 8        | 11.29   | 8.89    | 40                |
| TDA10H0_B1  | 10       | 13.83   | 11.43   | 30                |

### Schematic SPST



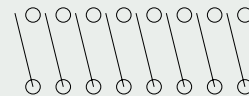
### TDA01H0SB1R



### Tape and Reel Package

| ROHS Part # | No. Pos. | DIM 'W' | Quantity per Reel |
|-------------|----------|---------|-------------------|
| TDA01H0SB1R | 1        | 16.0    | 2,500             |
| TDA02H0_B1R | 2        |         | 2,000             |
| TDA04H0_B1R | 4        |         |                   |
| TDA06H0_B1R | 6        |         |                   |
| TDA08H0_B1R | 8        | 24.0    | 2,000             |
| TDA10H0_B1R | 10       |         |                   |

### Schematic SPST



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