

# Series 206/208 Data Sheet Through Hole DIP Switch

## Multifunctional Through Hole DIP Switches

#### **Features**

#### **Optimized Mechanical Features**

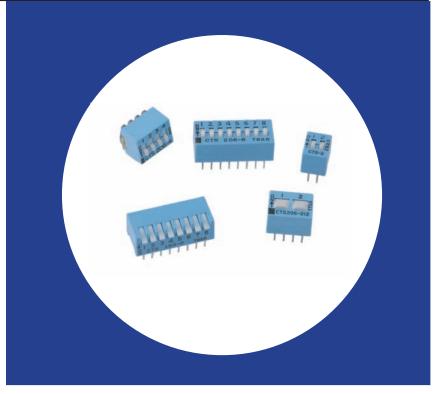
- Standard 2.54mm (.100") x 7.62mm (.300") DIP centers
- Sealed version optional; assures contaminant-free switch operation after wave soldering and cleaning
- Available with low profile, standard, or extended actuators for SPST circuitry.
- Switch contacts elevated above switch base provides dust proof feature.
- Available with SPST,SPDT,DPST, 4PST circuitry choices.

#### **Optimized Contact System**

- · Contact wiping action on make and break
- Integral terminal and contact locked into thermoset base
- · Electrostatic discharge shield rated to 22 KV

#### Materials

- Series 206, gold plated contacts for long-term contact corrosion resistance.
- · Series 208, tin plated contacts
- · UL 94V-0 plastics
- RoHS compliant



Series 206 – Premium Programmable DIP Switch Series 208 – Economical Programmable DIP Switch

## **Electrical and Mechanical Specifications**

#### **Switch Function**

SPST - 1 through 10 and 12 positions SPDT&DPST- 1 through 6 positions 3PST - 1 through 4 positions

#### **Switch Contact Resistance**

| Switch Series | Initial, max.    | End of life , max. |  |
|---------------|------------------|--------------------|--|
| 206           | 206 50 milliohms |                    |  |
| 208           | 100 milliohms    | 500 milliohms      |  |

#### **Insulation Resistance**

1,000 megohms minimum between insulated terminals

#### **Dielectric Strength**

500 VAC for 1 minute between adjacent switches

#### **Nonswitching Rating**

100 mA or 50 VDC maximum

#### **Switch Capacitance**

5.0 pF maximum between adjacent closed switches

#### **Operating Temperature**

- 55°C to +85°C

#### **Actuation Life**

Series 206: 10,000 cycles switching 50 mA @ 24 VDC Series 208: 2,000 cycles switching 50 mA @ 24 VDC

#### **Allowable Solder Time**

Wave soldering up to 5 seconds at 260°C

#### Vibration

Per MIL-STD-202F, method 204D, condition B(.06" or 15G's between 10HZ to 2 KHZ) with no contact inconsistencies greater than 1 microsecond

#### Shock

Per MIL-STD-202F, method 213B, condition A(50G's) with no contact inconsistencies greater than 1 microsecond

#### Sealing

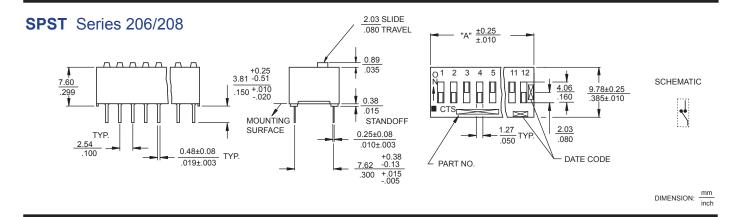
Bottom epoxy seal optional
Top tape seal optional

#### Marking

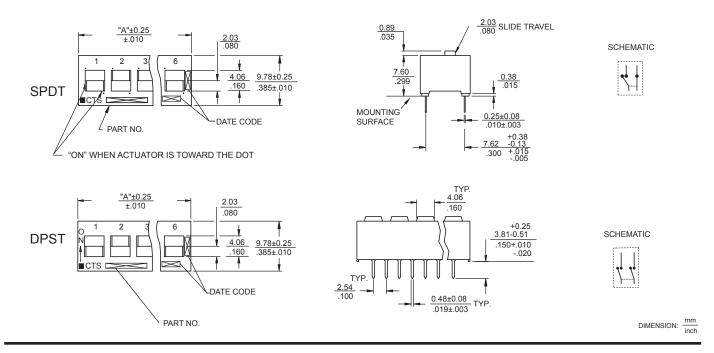
Special side or top marking available-consult CTS

#### Packaging

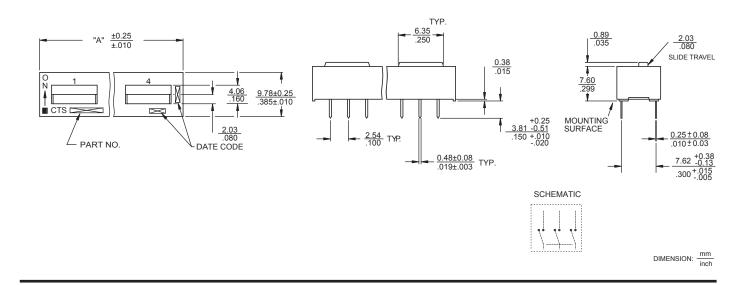
Standard: Anti-Static tube packaging



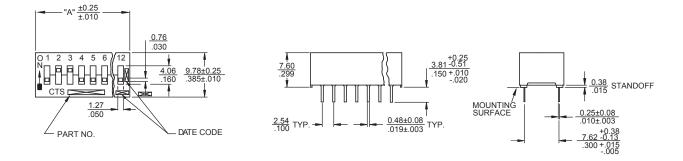
#### SPDT / DPST Series 206/208



#### **3PST** Series 206/208

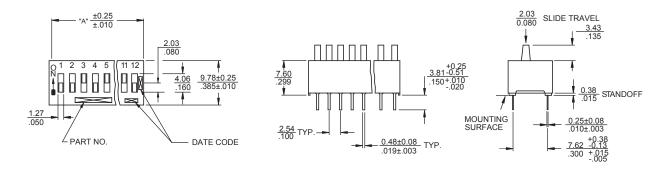


## Low Profile Actuators Series 206/208 (SPST & SPDT only)



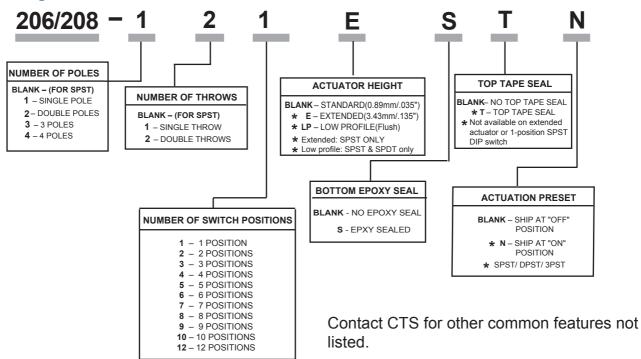
DIMENSION: mm inch

## Extended Actuators Series 206/208 (SPST)



DIMENSION: mm inch

## **Ordering Information**



|               | T .              |           |             | 1                      | 1               |
|---------------|------------------|-----------|-------------|------------------------|-----------------|
|               |                  |           |             |                        | Low Profile     |
| "A" Overall   | Number of        |           |             | Both Bottom            | Both Bottom     |
| Dimensions    | Switch Positions | Actuation | Part Number | and Top Sealed         | and Top Sealed  |
| 3.96 / .156   |                  | SPST      | 206/208-1S  | _                      | _               |
| 7.26 / .286   | 2                | SPST      | 206/208-2   | 206/208-2ST            | 206/208-2LPST   |
| 9.80 / .386   | 3                | SPST      | 206/208-3   | 206/208-3ST            | 206/208-3LPST   |
| 12.34 / .486  | 4                | SPST      | 206/208-4   | 206/208-4ST            | 206/208-4LPST   |
| 14.88 / .586  | 5                | SPST      | 206/208-5   | 206/208-5ST            | 206/208-5LPST   |
| 17.42 / .686  | 6                | SPST      | 206/208-6   | 206/208-6ST            | 206/208-6LPST   |
| 19.96 / .786  | 7                | SPST      | 206/208-7   | 206/208-7ST            | 206/208-7LPST   |
| 22.50 / .886  | 8                | SPST      | 206/208-8   | 206/208-8ST            | 206/208-8LPST   |
| 25.04 / .986  | 9                | SPST      | 206/208-9   | 206/208-9ST            | 206/208-9LPST   |
| 27.58 / 1.086 | 10               | SPST      | 206/208-10  | 206/208-10ST           | 206/208-10LPST  |
| 32.66 / 1.286 | 12               | SPST      | 206/208-12  | 206/208-12ST           | 206/208-12LPST  |
| 7.26 / .286   | 1                | SPDT      | 206-121     | 206-121ST              | 206/208-121LPST |
| 12.34 / .486  | 2                | SPDT      | 206-122     | 206-122ST              | 206/208-122LPST |
| 17.42 / .686  | 3                | SPDT      | 206-123     | 206-123ST              | 206/208-123LPST |
| 22.50 / .886  | 4                | SPDT      | 206-124     | 206-124ST              | 206/208-124LPST |
| 27.58 / 1.086 | 5                | SPDT      | 206-125     | 206-125ST              | 206/208-125LPST |
| 32.66 / 1.286 | 6                | SPDT      | 206-126     | 206-126ST              | 206/208-126LPST |
| 7.26 / .286   | 1                | DPST      | 206-211     | 206-211ST              |                 |
| 12.34 / .486  | 2                | DPST      | 206-217     | 206-211ST<br>206-212ST |                 |
| 17.42 / .686  | 3                | DPST      | 206-212     | 206-213ST              |                 |
| 22.50 / .886  | 4                | DPST      | 206-214     | 206-214ST              |                 |
| 27.58 / 1.086 | 5                | DPST      | 206-215     | 206-215ST              |                 |
| 32.66 / 1.286 | 6                | DPST      | 206-216     | 206-216ST              |                 |
|               |                  |           | 200.011     | 200 24407              |                 |
| 9.80 / .386   | 1                | 3PST      | 206-311     | 206-311ST              |                 |
| 17.42 / .686  | 2                | 3PST      | 206-312     | 206-312ST<br>206-313ST |                 |
| 25.04 / .986  | 3                | 3PST      | 206-313     | 206-313ST<br>206-314ST |                 |
| 32.66 / 1.286 | 4                | 3PST      | 206-314     | 200-31431              |                 |
|               |                  |           |             |                        |                 |

## **Mouser Electronics**

**Authorized Distributor** 

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#### CTS:

206-10LPST 206-121 206-122 206-122ST 206-123 206-123ST 206-124ST 206-125 206-125ST 206-126 206-125ST 206-211 206-211ST 206-212 206-212ST 206-213 206-213ST 206-214ST 206-215 206-215ST 206-216 206-216ST 206-216ST 206-3LPST 206-3LPST 206-5LPST 206-5LPST 206-6LPST 206-7LPST 206-8LPST 206-9LPST 208-10 208-10ST 208-12ST 208-2ST 208-3ST 208-4ST 208-5ST 208-6ST 208-7ST 208-8ST 208-9ST 206-2 206-2S 206-2E 206-2ES 206-3S 206-3E 206-3ES 206-4S 206-4E 206-4ES 206-5 206-5S 206-5E 206-5ES 206-6S 206-6ST 206-6ES 206-10ES 206-12 206-12S 206-12E 206-12ES 206-12S 206-312 206-312S 206-312S 206-312S 206-312S 206-312S 206-312S 206-312S 206-312S 206-312S 208-3LPST 208-4S 208-4LPST 208-5S 208-5LPST 208-6S