

# Series 206/208 Data Sheet Through Hole DIP Switch

## Multifunctional Through Hole DIP Switches

#### **Features**

#### **Optimized Mechanical Features**

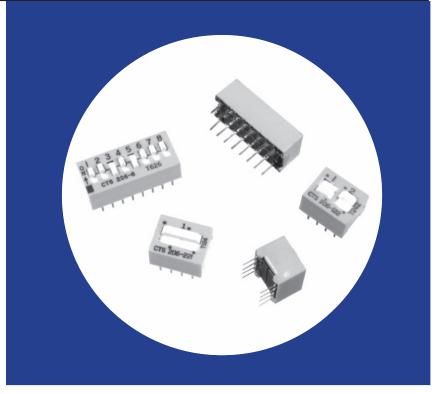
- Standard 2.54mm (.100") x 7.62mm (.300") DIP centers
- Sealed version optional; assures contaminant-free switch operation after wave soldering and cleaning
- Available with low profile, standard, or extended actuators for SPST circuitry.
- Switch contacts elevated above switch base provides dust proof feature.
- Available with SPST,SPDT DPST,DPDT, 3PST,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 DPDT&4PST - 1 through 3 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

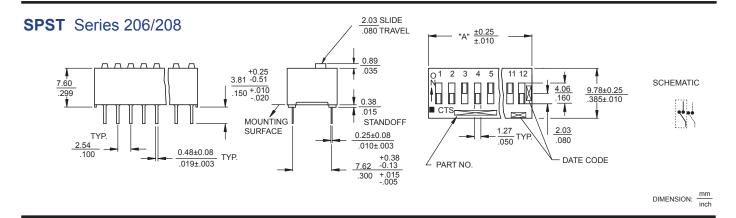
Bottom epoxy seal optional Top tape seal optional

#### Marking

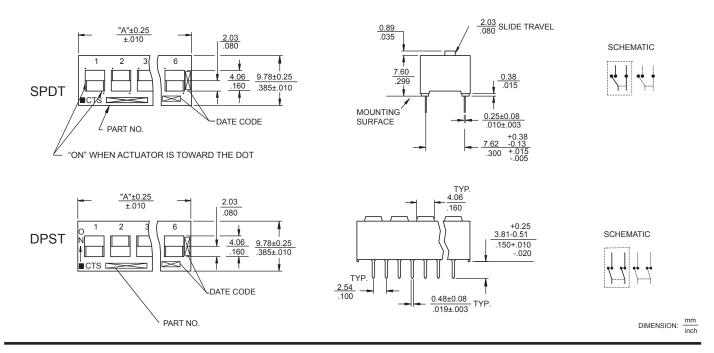
Special side or top marking available-consult CTS

#### Packaging

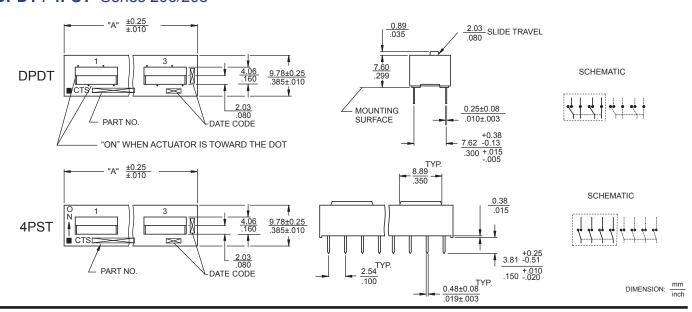
Standard: Anti-Static tube packaging



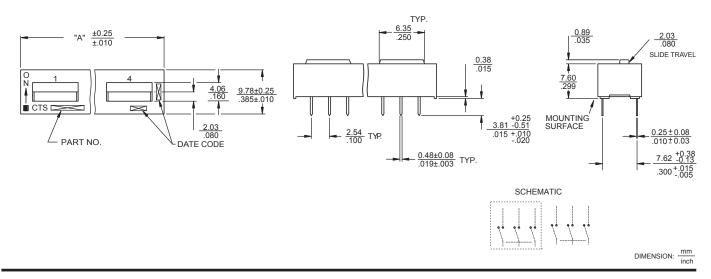
#### SPDT / DPST Series 206/208



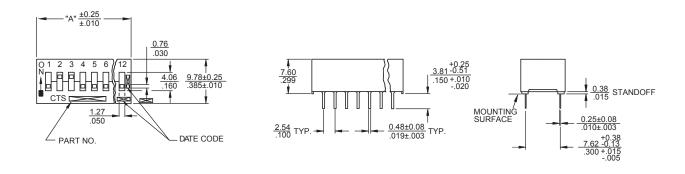
#### DPDT / 4PST Series 206/208



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

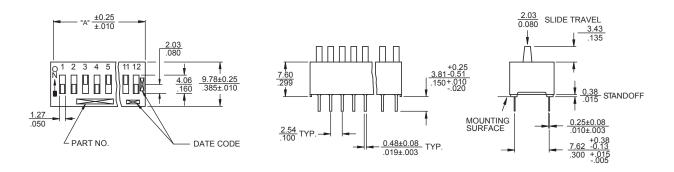


### Low Profile Actuators Series 206/208 (SPST & SPDT only)



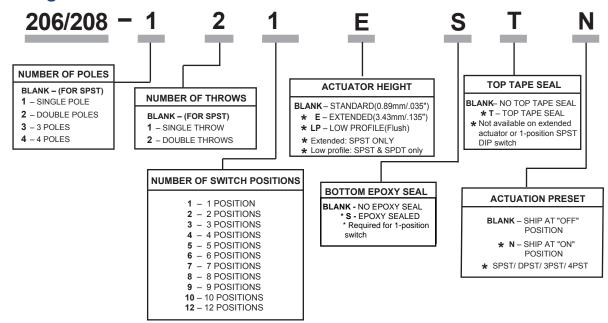
DIMENSION: mm inch

## Extended Actuators Series 206/208 (SPST)



DIMENSION: mm inch

## **Ordering Information**



			T	T	1
				5 " 5 "	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	1	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	000/000 4041 DOT
12.34 / .486		SPDT	206-121	206-12131 206-122ST	206/208-121LPST
17.42 / .686	2 3	SPDT	206-122	206-122ST 206-123ST	206/208-122LPST
		SPDT			206/208-123LPST
22.50 / .886	4		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	206-212	206-212ST	
17.42 / .686	3	DPST	206-213	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	
12.34 / .486	1	DPDT	206-221	206-221ST	
22.50 / .886	2	DPDT	206-222	206-222ST	
32.66 / 1.286	3	DPDT	206-223	206-223ST	
9.80 / .386	1	3PST	206-311	206-311ST	
17.42 / .686	2	3PST	206-312	206-312ST	
25.04 / .986	3	3PST	206-313	206-313ST	
32.66 / 1.286	4	3PST	206-314	206-314ST	
12.34 / .486	1	4PST	206-411	206-411ST	
22.50 / .886		4PST	206-411	206-411ST 206-412ST	
32.66 / 1.286	2 3	4PST 4PST	206-412	206-412ST 206-413ST	
32.00 / 1.200	ა	4201	200-413	200-41351	