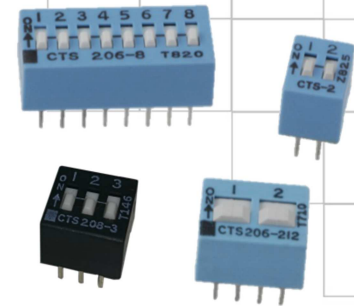




Series 206/208

Through-Hole DIP Switch

- Available with SPST, SPDT, DPST, 3PST circuitry choices
- Available with low profile, standard, or extended actuator heights.
Consult the ordering information for options.
- RoHS compliant
- Optional top tape seal for board spray washing



Description

The integral terminal and contact locked into the thermoset base provides electrostatic discharge shield rating to 22KV. The optimized contact design incorporating a dimple-to-flat surface wiping interface provides long-term contact corrosion resistance making this the ideal choice for any HVAC, server, or security system.

Ordering Information

Series	Number of Poles	Number of Throws	Number of Switch Positions	Actuator Height	Bottom Epoxy Seal	Top Tape Seal	Actuation Preset																																																
206-/208 -	1	2	1	E	S	T	N																																																
<table><tr><th>Code</th><th>No. of poles</th></tr><tr><td>Blank</td><td>For SPST</td></tr><tr><td>1</td><td>Single pole</td></tr><tr><td>2</td><td>Double pole</td></tr><tr><td>3</td><td>3 poles</td></tr></table>		Code	No. of poles	Blank	For SPST	1	Single pole	2	Double pole	3	3 poles	<table><tr><th>Code</th><th>No. of switch positions</th></tr><tr><td>1</td><td>1 position</td></tr><tr><td>2</td><td>2 positions</td></tr><tr><td>3</td><td>3 positions</td></tr><tr><td>4</td><td>4 positions</td></tr><tr><td>5</td><td>5 positions</td></tr><tr><td>6</td><td>6 positions</td></tr><tr><td>7</td><td>7 positions</td></tr><tr><td>8</td><td>8 positions</td></tr><tr><td>9</td><td>9 positions</td></tr><tr><td>10</td><td>10 positions</td></tr><tr><td>12</td><td>12 positions</td></tr></table>		Code	No. of switch positions	1	1 position	2	2 positions	3	3 positions	4	4 positions	5	5 positions	6	6 positions	7	7 positions	8	8 positions	9	9 positions	10	10 positions	12	12 positions	<table><tr><th>Code</th><th>Spec.</th></tr><tr><td>Blank</td><td>Standard (0.89mm/.035")</td></tr><tr><td>E</td><td>Extended (3.43mm/.135") (SPST only)</td></tr><tr><td>LP</td><td>Low profile (Flush) (SPST & SPDT only)</td></tr></table>		Code	Spec.	Blank	Standard (0.89mm/.035")	E	Extended (3.43mm/.135") (SPST only)	LP	Low profile (Flush) (SPST & SPDT only)	<table><tr><th>Code</th><th>Spec.</th></tr><tr><td>BLANK</td><td>Ship at OFF position</td></tr><tr><td>N</td><td>Ship at ON position (SPST, DPST & 3PST only)</td></tr></table>		Code	Spec.	BLANK	Ship at OFF position	N	Ship at ON position (SPST, DPST & 3PST only)
Code	No. of poles																																																						
Blank	For SPST																																																						
1	Single pole																																																						
2	Double pole																																																						
3	3 poles																																																						
Code	No. of switch positions																																																						
1	1 position																																																						
2	2 positions																																																						
3	3 positions																																																						
4	4 positions																																																						
5	5 positions																																																						
6	6 positions																																																						
7	7 positions																																																						
8	8 positions																																																						
9	9 positions																																																						
10	10 positions																																																						
12	12 positions																																																						
Code	Spec.																																																						
Blank	Standard (0.89mm/.035")																																																						
E	Extended (3.43mm/.135") (SPST only)																																																						
LP	Low profile (Flush) (SPST & SPDT only)																																																						
Code	Spec.																																																						
BLANK	Ship at OFF position																																																						
N	Ship at ON position (SPST, DPST & 3PST only)																																																						
<table><tr><th>Code</th><th>Spec.</th></tr><tr><td>Blank</td><td>For SPST</td></tr><tr><td>1</td><td>Single throw</td></tr><tr><td>2</td><td>Double throw</td></tr></table>		Code	Spec.	Blank	For SPST	1	Single throw	2	Double throw			<table><tr><th>Code</th><th>Bottom epoxy seal</th></tr><tr><td>Blank</td><td>No epoxy seal</td></tr><tr><td>S</td><td>Epoxy seal (Required for 206-1S)</td></tr></table>		Code	Bottom epoxy seal	Blank	No epoxy seal	S	Epoxy seal (Required for 206-1S)	<table><tr><th>Code</th><th>Top tape seal</th></tr><tr><td>Blank</td><td>No top tape seal</td></tr><tr><td>T</td><td>Top tape seal (Not available for extended actuator or 1-position SPST DIP switch)</td></tr></table>		Code	Top tape seal	Blank	No top tape seal	T	Top tape seal (Not available for extended actuator or 1-position SPST DIP switch)																												
Code	Spec.																																																						
Blank	For SPST																																																						
1	Single throw																																																						
2	Double throw																																																						
Code	Bottom epoxy seal																																																						
Blank	No epoxy seal																																																						
S	Epoxy seal (Required for 206-1S)																																																						
Code	Top tape seal																																																						
Blank	No top tape seal																																																						
T	Top tape seal (Not available for extended actuator or 1-position SPST DIP switch)																																																						

Notes: 1.Contact CTS for other common features not listed.

Notes: 1.Contact CTS for other common features not listed.

2. Alternate numbering format 20600/20800... instead of 206-/208-

Example: 206008ST



Electrical Specifications

Parameter	Conditions & Remarks	Min	Max	Unit
Contact Resistance (206)	Initial		50	milliohms
	At end of life		100	
Contact Resistance (208)	Initial		100	milliohms
	At end of life		500	
Insulation Resistance	Between insulated terminals	1000		Megohms
Dielectric Strength	500 VAC between adjacent switches		1	minute
Switch Capacitance	Between adjacent closed switches		5.0	pF
Nonswitching Rating			100	mA
			or 50	or VDC
Circuit	SPST	1	12	Position
	SPDT	1	6	Position
	DPST	1	6	Position
	3PST	1	4	Position

Mechanical and Environmental

Actuation Life (206)	10,000 cycles switching 50mA @ 24VDC
Actuation Life (208)	2,000 cycles switching 50mA @ 24VDC
Soldering	Maximum wave temperature, 260°C for 5 seconds
Shock	Per MIL-STD-202F, method 213B, condition A(50G's) with no contact inconsistencies greater than 1 microsecond
Vibration	Per MIL-STD-202F, method 204D, condition B (.06" or 15G's between 10 HZ to 2K HZ) with no contact inconsistencies greater than 1 microsecond
Seal	Bottom epoxy seal optional Optional top tape seal for board spray washing
Marking	Special side or top marking available-consult CTS
Packaging:	Standard anti-static tube packaging
Operating Temperature Range	-55°C to +85°C
Storage Temperature Range	-55°C to +85°C

Mechanical Specifications

Figure 1 - SPST

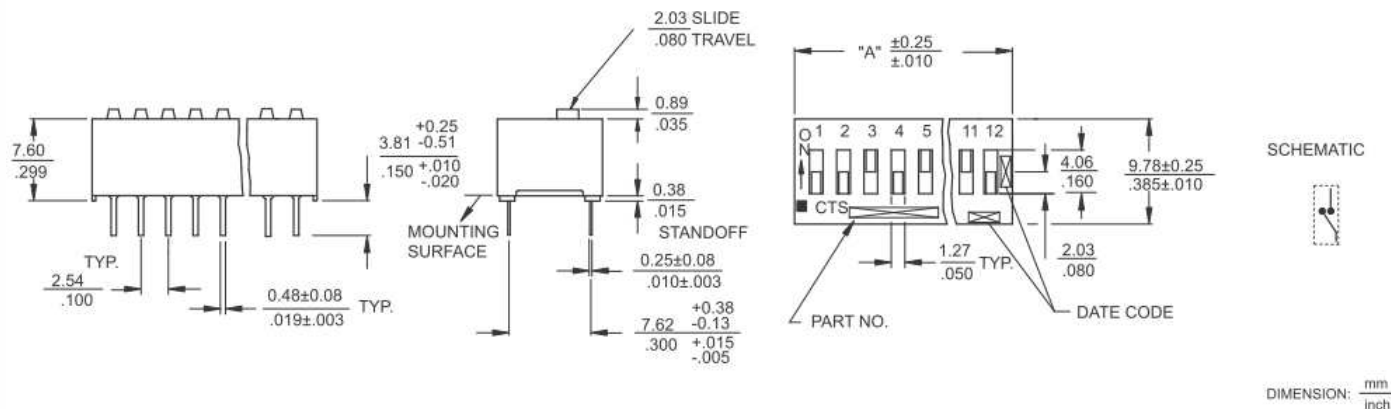


Figure 2 – SPDT

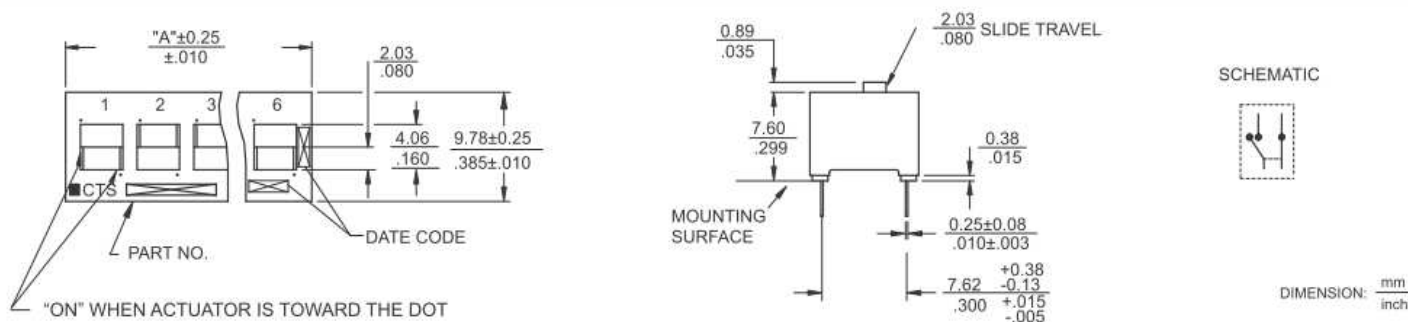


Figure 3 – DPST

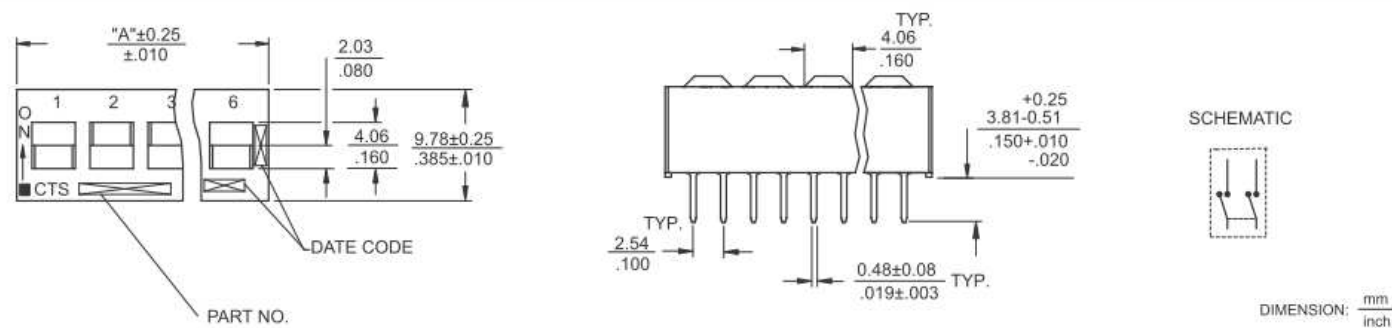


Figure 4 - 3PST

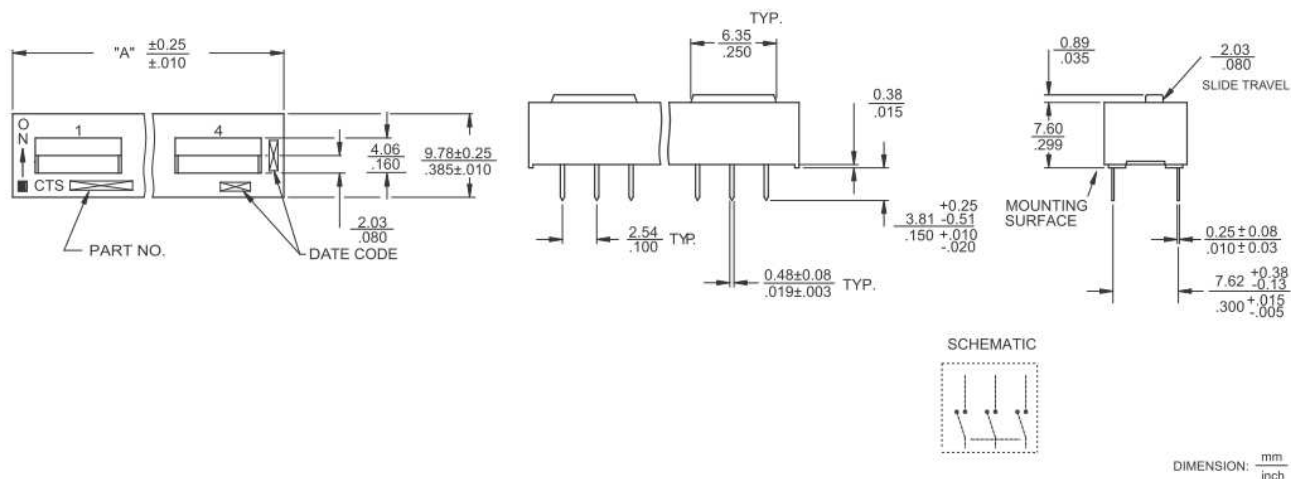


Figure 5 – Low Profile Actuators (SPST & SPDT only)

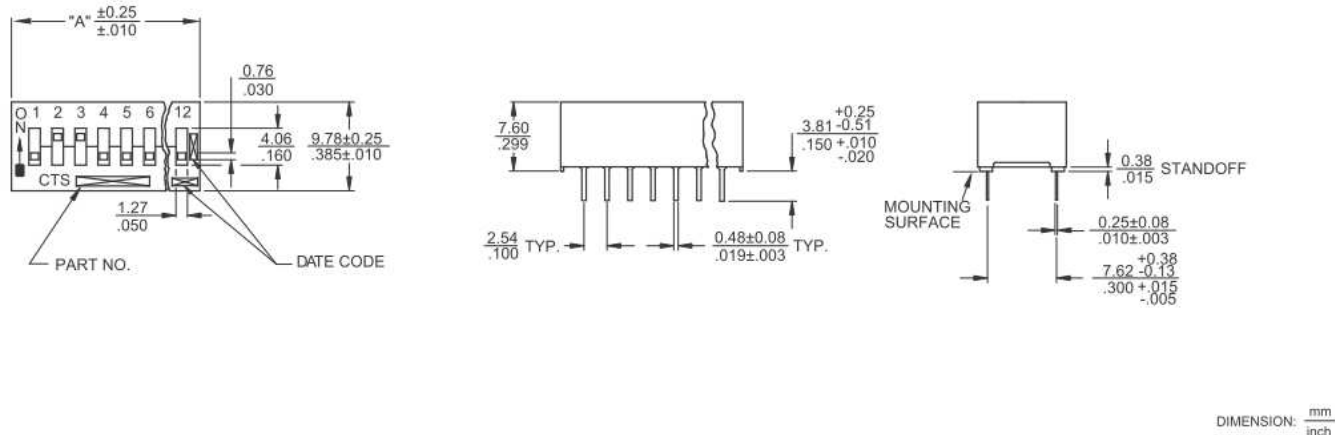
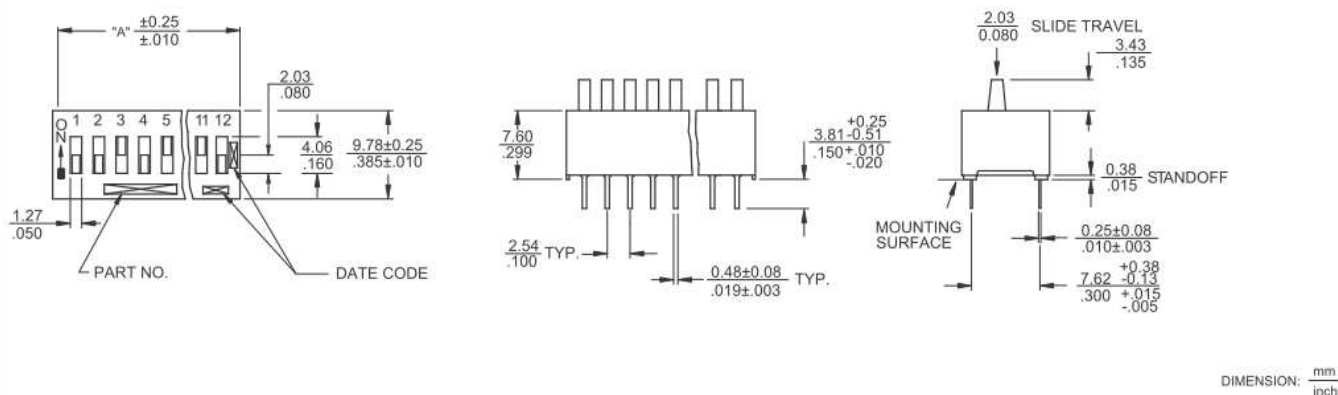


Figure 6 – Extended Actuators (SPST only)



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

CTS:

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