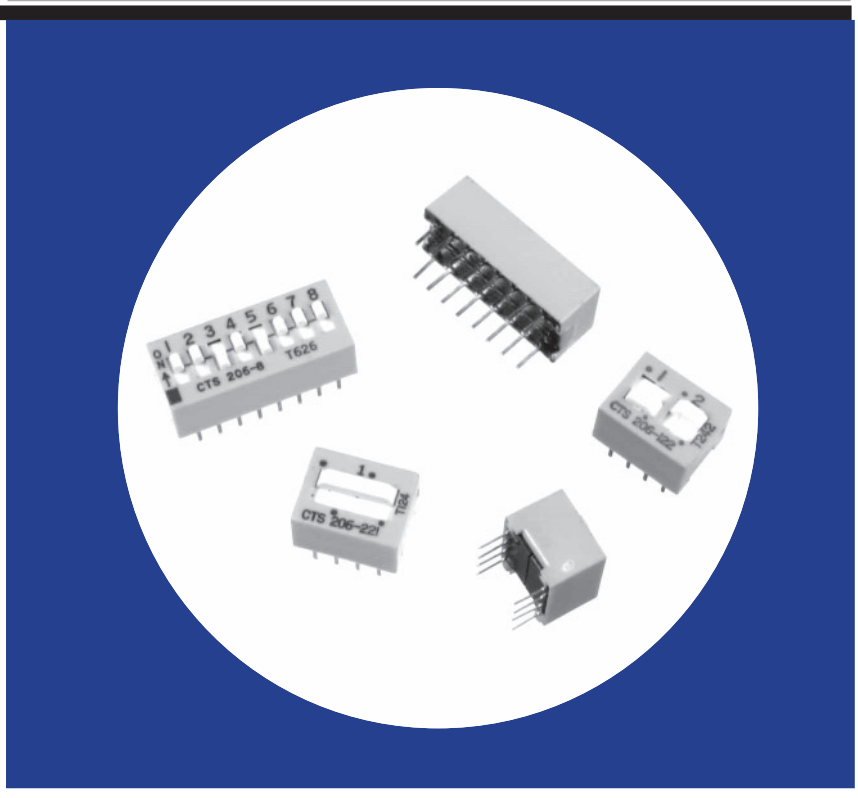
CTS Electrocomponents

Series 206/208 Data Sheet
Through Hole DIP Switch

Multifunctional Through Hole DIP Switches



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

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

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	50 milliohms	100 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

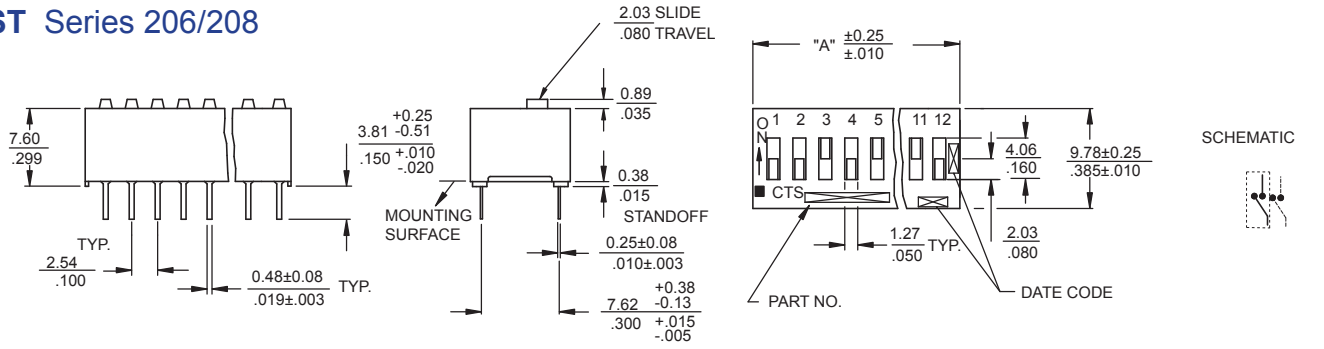
Special side or top marking available-consult CTS

Packaging

Standard : Anti-Static tube packaging

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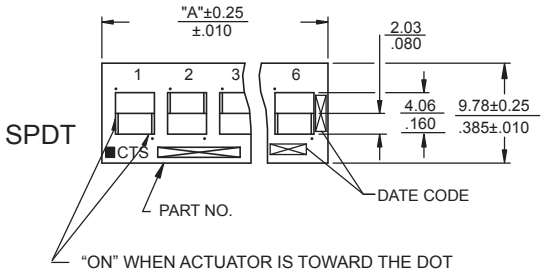
SPST Series 206/208

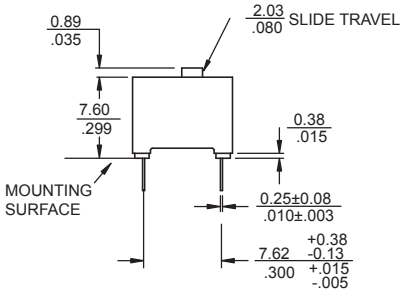


DIMENSION: mm / inch

SPDT / DPST Series 206/208

SPDT

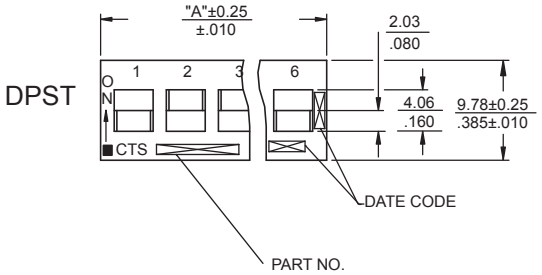


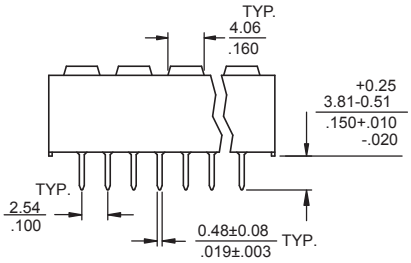


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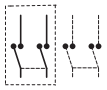


DPST





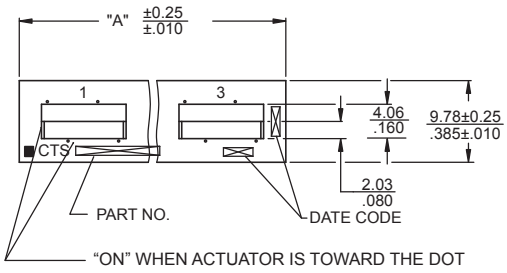
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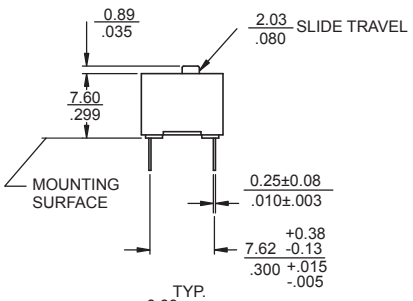


DIMENSION: mm / inch

DPDT / 4PST Series 206/208

DPDT

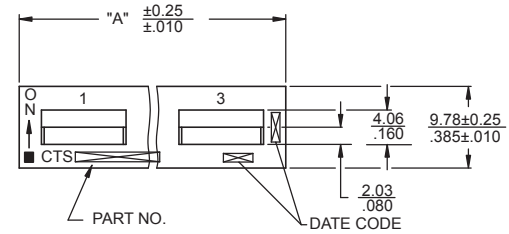


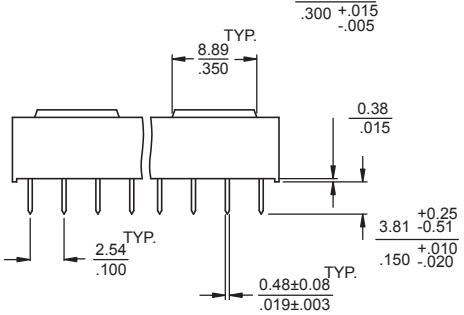


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4PST





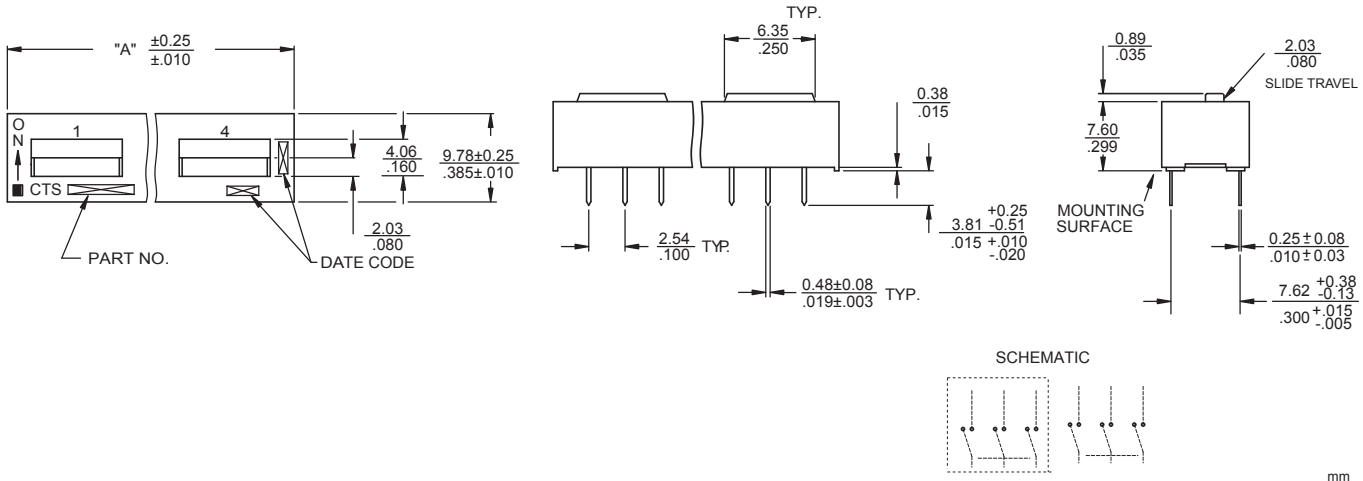
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DIMENSION: mm / inch

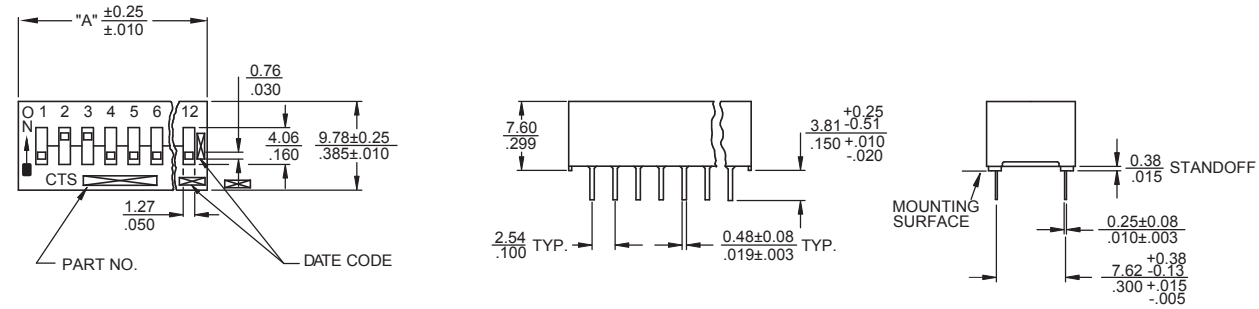
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3PST Series 206/208



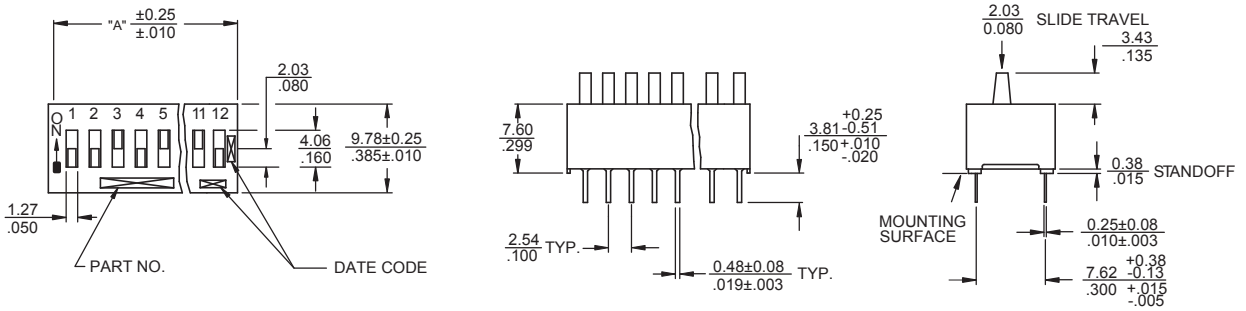
DIMENSION: mm / inch

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



DIMENSION: mm / inch

Extended Actuators Series 206/208 (SPST)



DIMENSION: mm / inch

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Ordering Information

206/208 – 1 2 1 E S T N

NUMBER OF POLES
BLANK – (FOR SPST)
1 – SINGLE POLE
2 – DOUBLE POLES
3 – 3 POLES
4 – 4 POLES

NUMBER OF THROWS
BLANK – (FOR SPST)
1 – SINGLE THROW
2 – DOUBLE THROWS

NUMBER 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

ACTUATOR HEIGHT
BLANK – STANDARD(0.89mm/.035")
* **E** – EXTENDED(3.43mm/.135")
* **LP** – LOW PROFILE(Flush)
* Extended: SPST ONLY
* Low profile: SPST & SPDT only

BOTTOM EPOXY SEAL
BLANK - NO EPOXY SEAL
* **S -** EPOXY SEALED
* Required for 1-position switch

TOP TAPE SEAL
BLANK– NO TOP TAPE SEAL
* **T** – TOP TAPE SEAL
* Not available on extended actuator or 1-position SPST DIP switch

ACTUATION PRESET
BLANK – SHIP AT "OFF" POSITION
* **N** – SHIP AT "ON" POSITION
* SPST/ DPST/ 3PST/ 4PST

"A" Overall Dimensions	Number of Switch Positions	Actuation	Part Number	Both Bottom and Top Sealed	Low Profile Both Bottom 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	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	206-212	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	2	4PST	206-412	206-412ST	
32.66 / 1.286	3	4PST	206-413	206-413ST	

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