

Right angle panel DIP switches

Features

Optimized Mechanical Features

- Designed for panel applications
Saves cost of right angle socket
- SPST, SPDT, DPST, DPDT, 3PST or 4PST circuitry choices
- Standard 2.54mm (.100") x 2.54mm (.100") centers, uses minimum PCB real estate
- Standard or low profile actuators
- Sealed version optional: assures contaminant-free switch operation after flow soldering and cleaning

Optimized Contact System

- Contact wiping on make and break
- Integral terminal and contact locked into high temperature plastic base
- Electrostatic discharge shield rated to 22 KV

Materials

- Gold plated contacts for long-term contact corrosion resistance
- All U.L. 94 V-O plastics used



Electrical and Mechanical Specifications

Switch Function

Single pole single throw
Single pole double throw
Double pole single throw
Double pole double throw
3 pole single throw
4 pole single throw

Switch Contact Resistance

50 milliohms maximum initial
100 milliohms maximum after 10,000 cycles
switching 50 mA @ 24 VDC

Insulation Resistance

1,000 megohms minimum across open switch
1,000 megohms minimum between adjacent
closed switches

Dielectric Strength

500 VAC minimum for 1 minute between adjacent
switches

Nonswitching Rating

100 mA or 50 VDC

Switch Capacitance

5.0 pF maximum between adjacent switches

Operating Temperature

–55°C to +85°C

Actuation Life

10,000 cycles @ 50 mA @ 24 VDC

Allowable Solder Time

Up to 4 seconds with 260°C solder

Vibration

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

Shock

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

Sealing

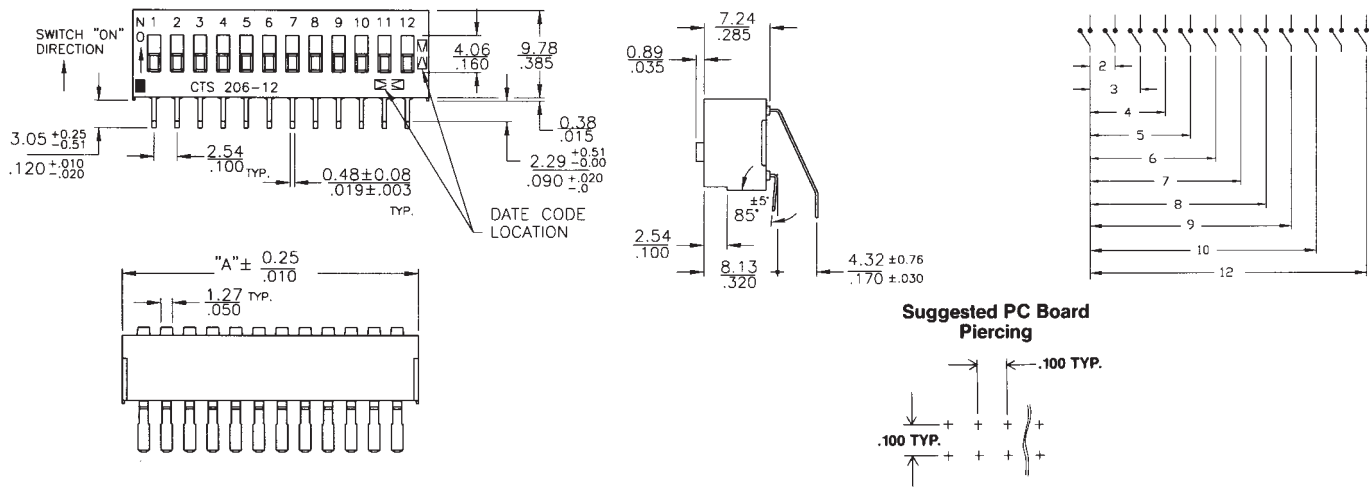
Bottom epoxy seal optional
Top tape seal optional

Marking

Special side or top marking available-consult CTS

CTS Series 206RA

DIMENSION: $\frac{\text{MM}}{\text{INCH}}$



Ordering Information

SPST Switches				SPDT, DPST, DPDT, 3PST and 4PST Switches			
"A" Overall Dimensions	Number of Switch Sections	Standard Actuator (Unsealed Switch) Part Number	Low Profile Actuator (Sealed Switch) Part Number	"A" Overall Dimensions	Number of Switch Sections	Actuation	Standard Actuator (Sealed Switch) Part Number
7.26 / .286	2	206-2 RA	206-2 RALPST	7.26 / .286	1	SPDT	206-121 RAST
9.80 / .386	3	206-3 RA	206-3 RALPST	12.34 / .486	2	SPDT	206-122 RAST
12.34 / .486	4	206-4 RA	206-4 RALPST	17.42 / .686	3	SPDT	206-123 RAST
14.88 / .586	5	206-5 RA	206-5 RALPST	22.50 / .886	4	SPDT	206-124 RAST
17.42 / .686	6	206-6 RA	206-6 RALPST	27.58 / 1.086	5	SPDT	206-125 RAST
19.96 / .786	7	206-7 RA	206-7 RALPST	32.66 / 1.286	6	SPDT	206-126 RAST
22.50 / .886	8	206-8 RA	206-8 RALPST	7.26 / .286	1	DPST	206-211 RAST
25.04 / .986	9	206-9 RA	206-9 RALPST	12.34 / .486	2	DPST	206-212 RAST
27.58 / 1.086	10	206-10 RA	206-10 RALPST	17.42 / .686	3	DPST	206-213 RAST
32.66 / 1.286	12	206-12 RA	206-12 RALPST	22.50 / .886	4	DPST	206-214 RAST
				27.58 / 1.086	5	DPST	206-215 RAST
				32.66 / 1.286	6	DPST	206-216 RAST
				12.34 / .486	1	DPDT	206-221 RAST
				22.50 / .886	2	DPDT	206-222 RAST
				32.66 / 1.286	3	DPDT	206-223 RAST
				9.80 / .386	1	3PST	206-311 RAST
				17.42 / .686	2	3PST	206-312 RAST
				25.04 / .986	3	3PST	206-313 RAST
				32.66 / 1.286	4	3PST	206-314 RAST
				12.34 / .486	1	4PST	206-411 RAST
				22.50 / .886	2	4PST	206-412 RAST
				32.66 / 1.286	3	4PST	206-413 RAST

Part Numbering Information

206	—	X	X	XX	(RA)	X	OPTIONS	T
Series					Right Angle	Actuator Length		Top Tape Seal
						LP — Low Profile (Option on SPST)		
						Blank — Standard length		
							S	
							Bottom Epoxy Seal	

Order From:

CTS CORPORATION, ELECTROCOMPONENTS / 1601 Mishawaka Street / Elkhart, Indiana 46514
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