

## Right Angle Panel DIP Switches

### Features

#### Optimized Mechanical Features

- Designed for panel applications  
Saves cost of right angle socket
- Multiple circuit configurations available
- Standard 2.54mm (.100") x 2.54mm (.100") centers, uses minimum PCB real estate
- Sealed version optional: assures contaminant-free switch operation after wave soldering and cleaning
- Available with low profile, standard, or extended actuators for SPST circuitry

#### Optimized Contact System

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

#### Materials

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



**Series 206RA – Premium Gold Plated Contacts**  
**Series 208RA – Economical Tin Plated Contacts**

## Electrical and Mechanical Specifications

### Switch Function

SPST - 2 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. |
|---------------|---------------|--------------------|
| 206RA         | 50 milliohms  | 100 milliohms      |
| 208RA         | 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 206RA: 10,000 cycles switching 50 mA @ 24 VDC  
Series 208RA: 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 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

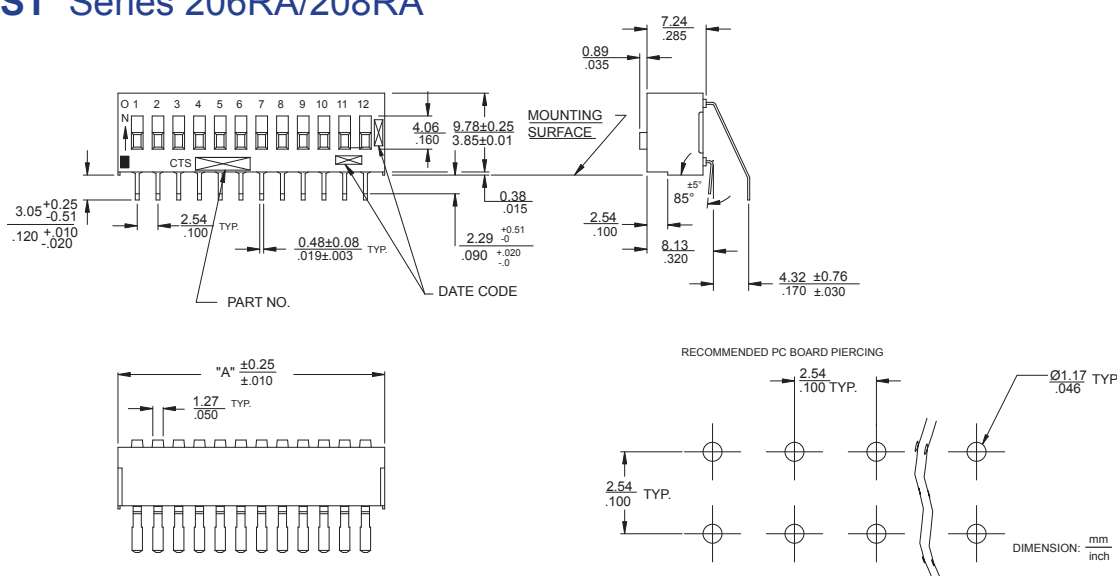
### Marking

Special side or top marking available-consult CTS

### Packaging

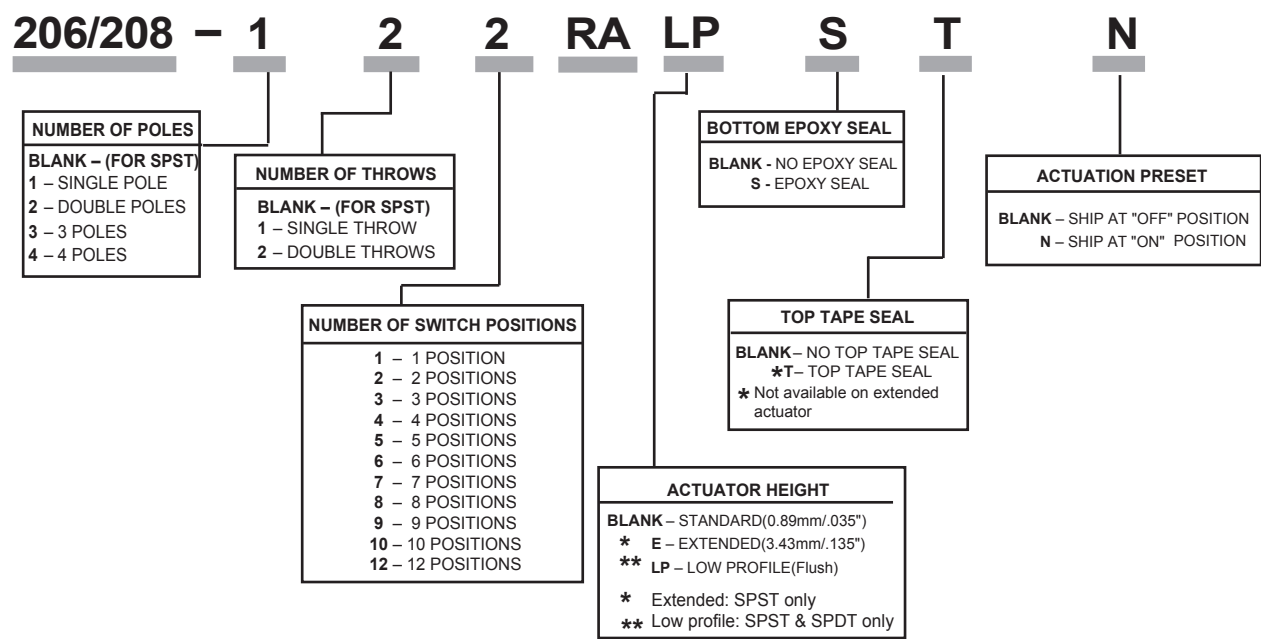
Standard : Anti-Static tube packaging

SPST Series 206RA/208RA



Please find panel drawing of 206/208 RA DIP switches with SPDT,DPST,DPDT,3PST, or 4PST circuitry from 206/208 series data sheet

Ordering Information



| Standard Part #      |                    | SPST Switches |                    | SPDT&DPST Switches |               | 3PST Switches      |               | DPDT/ 4PST Switches |               |               |
|----------------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------------|---------------|---------------|
| Dimensions (mm/inch) | No of SW positions | SPST P/N      | No of SW positions | SPDT P/N           | DPST P/N      | No of SW positions | 3PST P/N      | No of SW positions  | DPDT P/N      | 4PST P/N      |
| 7.26 / .286          | 2                  | 206/208- 2 RA | 1                  | 206/208-121RA      | 206/208-211RA | —                  | —             | —                   | —             | —             |
| 9.80 / .386          | 3                  | 206/208- 3 RA | —                  | —                  | —             | 1                  | 206/208-311RA | —                   | —             | —             |
| 12.34 / .486         | 4                  | 206/208- 4 RA | 2                  | 206/208-122RA      | 206/208-212RA | —                  | —             | 1                   | 206/208-221RA | 206/208-411RA |
| 14.88 / .586         | 5                  | 206/208- 5 RA | —                  | —                  | —             | —                  | —             | —                   | —             | —             |
| 17.42 / .686         | 6                  | 206/208- 6 RA | 3                  | 206/208-123RA      | 206/208-213RA | 2                  | 206/208-312RA | —                   | —             | —             |
| 19.96 / .786         | 7                  | 206/208- 7 RA | —                  | —                  | —             | —                  | —             | —                   | —             | —             |
| 22.50 / .886         | 8                  | 206/208- 8 RA | 4                  | 206/208-124RA      | 206/208-214RA | —                  | —             | 2                   | 206/208-222RA | 206/208-412RA |
| 25.04 / .986         | 9                  | 206/208- 9 RA | —                  | —                  | —             | 3                  | 206/208-313RA | —                   | —             | —             |
| 27.58 / 1.086        | 10                 | 206/208-10 RA | 5                  | 206/208-125RA      | 206/208-215RA | —                  | —             | —                   | —             | —             |
| 32.66 / 1.286        | 12                 | 206/208-12 RA | 6                  | 206/208-126RA      | 206/208-216RA | 4                  | 206/208-314RA | 3                   | 206/208-223RA | 206/208-413RA |