



**THE DATASHEET OF
206-8RAST**

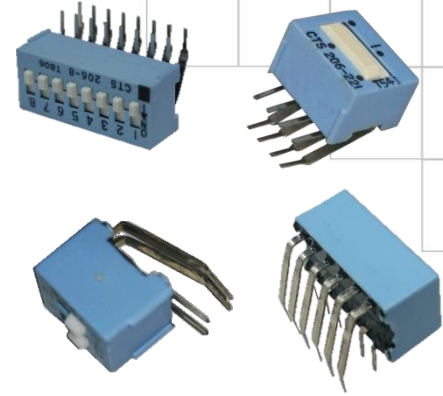




Series 206RA

Right Angle Panel DIP Switch

- Designed for panel applications, saves cost of right angle socket
- Available as SPST, SPDT, DPST, 3PST
- Optional tape seal for board spray washing
- Available with low profile, standard, or extended actuators
- Gold Plated Contacts



Description

The terminals are molded into the thermoset base and provide an electrostatic discharge shield rating to 22KV when the front row of terminals are connected to ground. The optimized gold plated contact design incorporates a dimple-to-flat surface wiping interface for long-term contact corrosion resistance, making the 206RA an ideal choice for many applications.

Ordering Information

| Series | Number of Poles | Number of Throws | Number of Switch Positions | Type of Terminals | Actuator Height | Bottom Epoxy Seal | Top Tape Seal | Actuation Preset |
|--------|-----------------|------------------|----------------------------|-------------------|-----------------|-------------------|---------------|------------------|
| 206 - | 1 | 2 | 1 | RA | LP | S | T | N |

| Code | No. of poles |
|-------|--------------|
| Blank | For SPST |
| 1 | Single pole |
| 2 | Double poles |
| 3 | 3 poles |

| Code | Spec. |
|-------|----------------------------------|
| Blank | For SPST |
| 1 | Single throw |
| 2 | Double throws (Single pole only) |

| Code | No. of switch positions |
|------|-------------------------------------|
| 1 | 1 position (Not available for SPST) |
| 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 | Bottom epoxy seal |
|-------|-------------------|
| Blank | No epoxy seal |
| S | Epoxy seal |

| Code | Spec. |
|-------|---|
| Blank | Ship at OFF position (SPST, DPST&3PST only) |
| N | Ship at ON position (SPST, DPST&3PST only) |

| Code | Top tape seal |
|-------|---|
| Blank | No top tape seal |
| T | Top tape seal for Board spray washing (Not available for extended actuator) |



Electrical Specifications

| Parameter | Conditions & Remarks | Min | Max | Unit |
|-----------------------|-----------------------------------|------|----------|-----------|
| Circuit | SPST | 2 | 12 | position |
| | SPDT | 1 | 6 | |
| | DPST | 1 | 6 | |
| | 3PST | 1 | 4 | |
| Contact Resistance | Initial | | 50 | milliohms |
| | At end of life | | 100 | |
| 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 |

Mechanical and Environmental

| | |
|-----------------------------|---|
| Actuation Life | 10,000 cycles switching 50mA @ 24 VDC |
| Soldering | Maximum wave temperature, 260°C for 5 seconds |
| MSL | Level 1 |
| RoHS | Lead-Free. Fully compliant to RoHS Directive 2011/65/EU and 2015/863/EU |
| 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 Tape seal optional |
| 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 | -40°C to +85°C |



Please find switch body dimensions of 206RA DIP switches with SPDT, DPST, 3PST circuitry on the 206 series data sheet.

| Standard Part # | | | | | | | |
|-----------------------|--------------------|----------|--------------------|-----------|-----------|--------------------|-----------|
| Dimensions | SPST Switches | | SPDT&DPST Switches | | | 3PST Switches | |
| "A" Overall (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 |
| 7.26 / .286 | 2 | 206-2RA | 1 | 206-121RA | 206-211RA | — | — |
| 9.80 / .386 | 3 | 206-3RA | — | — | — | 1 | 206-311RA |
| 12.34 / .486 | 4 | 206-4RA | 2 | 206-122RA | 206-212RA | — | — |
| 14.88 / .586 | 5 | 206-5RA | — | — | — | — | — |
| 17.42 / .686 | 6 | 206-6RA | 3 | 206-123RA | 206-213RA | 2 | 206-312RA |
| 19.96 / .786 | 7 | 206-7RA | — | — | — | — | — |
| 22.50 / .886 | 8 | 206-8RA | 4 | 206-124RA | 206-214RA | — | — |
| 25.04 / .986 | 9 | 206-9RA | — | — | — | 3 | 206-313RA |
| 27.58 / 1.086 | 10 | 206-10RA | 5 | 206-125RA | 206-215RA | — | — |
| 32.66 / 1.286 | 12 | 206-12RA | 6 | 206-126RA | 206-216RA | 4 | 206-314RA |

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