

Series 204 Data Sheet SMD DIP Switch

Surface Mount Multi-Functional DIP Switch IR Solderable, PCB Washable

Features

Optimized Mechanical Features

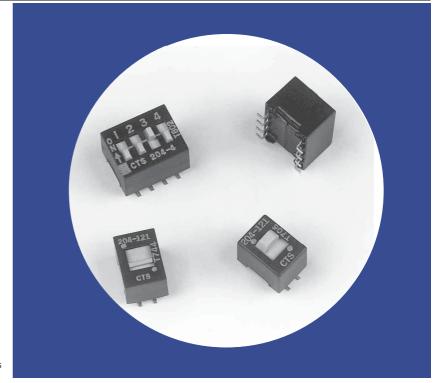
- · Coplanarity: 0.1mm / .004" max.
- Compatible with SMT assembly including IR and Vapor-Phase (up to 260°C)
- Enclosed actuators shield contacts from foreign particles throughout life of switch
- · Gull-wing terminal configurations
- · Available with SPST,SPDT,DPST, 3PST circuitry choices
- Removable tape seal to withstand IR solder temperature and board washing

Optimized Contact System

- · Contact wiping action on make and break
- · Integral terminal and contact locked into thermoset base
- · Available with low profile, standard, or extended actuators
- · Electrostatic discharge shield rated to 22 KV

Materials

- · Gold plated contacts for long-term contact corrosion resistance
- All UL 94 V-0 plastics used
- · RoHS compliant



Electrical and Mechanical Specifications

Switch Function

SPST - 2 through 10 and 12 positions SPDT & DPST - 1 through 6 positions 3PST - 1 through 4 positions

Contact Resistance

50 milliohms maximum initial 100 milliohms maximum at end of life

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 pF maximum between adjacent closed switches

Operating Temperature

-55°C to +85°C

Actuation Life

5,000 cycles switching 50 mA @ 24 VDC

Coplanarity

0.1mm/.004" max.

Allowable Solder Time

Up to 60 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

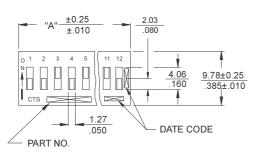
Marking

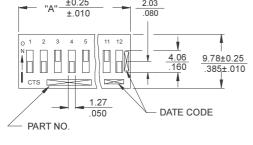
Special side or top marking available - consult CTS

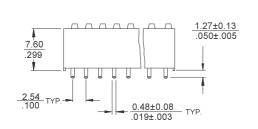
Packaging

Standard : Anti-static tube packaging Optional : Tape and reel packaging

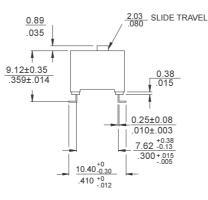
SPST











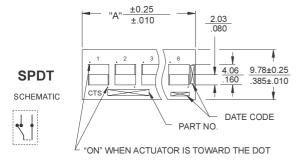
Ordering Information SPST Switches

"A" Overall Dimension		No. of Switch Positions	Part No.
7.26 /	.286	2	204-2
9.80 /		3	204-3
12.34 /	.486	4	204-4
14.88 /	.586	5	204-5
17.42 /	.686	6	204-6
19.96 /	.786	7	204-7
22.50 /	.886	8	204-8
25.04 /	.986	9	204-9
27.58 / 1	.086	10	204-10
32.66 / 1	.286	12	204-12

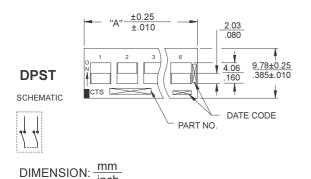
DIMENSION: mm inch

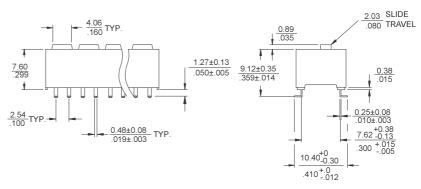
SPDT / DPST

Ordering Information SPDT/DPST Switches



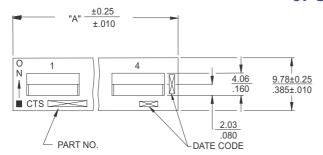
"A" Overall Dimension	Number of Switch Positions	Actuation	Part No.
7.26 / .286	1	SPDT/DPST	204-121/204-211
12.34 / .486	2	SPDT/DPST	204-122/204-212
17.42 / .686	3	SPDT/DPST	204-123/204-213
22.50 / .886	4	SPDT/DPST	204-124/204-214
27.58 / 1.086	5	SPDT/DPST	204-125/204-215
32.66 / 1.286	6	SPDT/DPST	204-126/204-216





inch

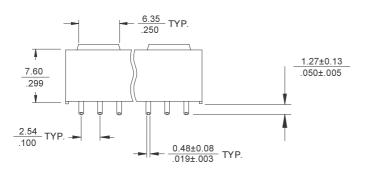
3PST

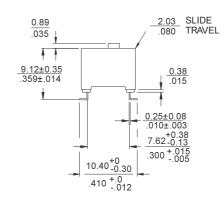




Ordering Information 3PST Switches

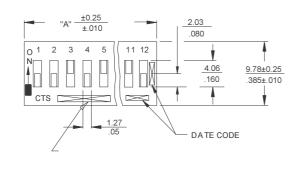
"A" Overall Dimension	No. of Switch Positions	Actuation	Part No.
9.80 / .386	1	3PST	204-311
17.42 / .686	2	3PST	204-312
25.04 / .986	3	3PST	204-313
32.66 / 1.286	4	3PST	204-314

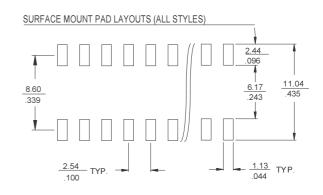


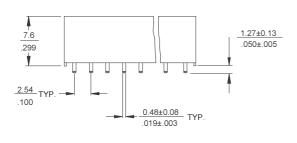


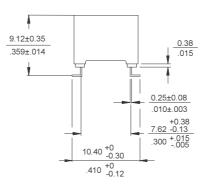
DIMENSION: mm

Low Profile Actuators (Available in SPST and SPDT)



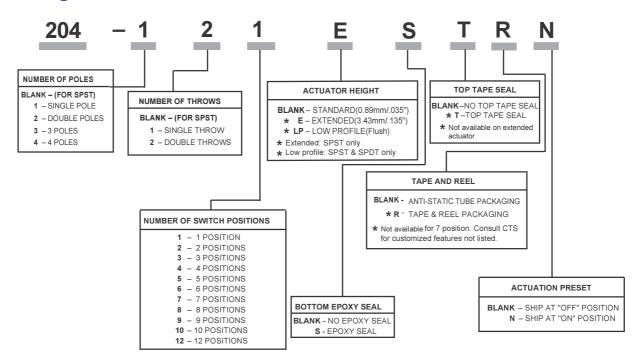






DIMENSION: mm inch

Ordering Information



Contact CTS for other common features not listed.

Mouser Electronics

Authorized Distributor

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CTS:

204-10ST 204-121ST 204-122ST 204-123ST 204-124ST 204-125ST 204-126ST 204-125ST 204-125ST 204-212ST 204-212ST 204-212ST 204-212ST 204-212ST 204-212ST 204-212ST 204-121LPST 204-122LPST 204-123LPST 204-124LPST 204-125LPST 204-126LPST 204-211ST 204-2ST 204-4ST 204-5ST 204-6ST 204-7ST 204-8ST 204-121 204-124STR 204-4LPSTR 204-4STR 204-122STR 204-211STR