

audio

automotive

aerospace

communication devices

consumer appliances

consumer electronics

datacom

data storage

handheld devices

industrial

industrial equipment

instrumentation

medical

military

mobile phones

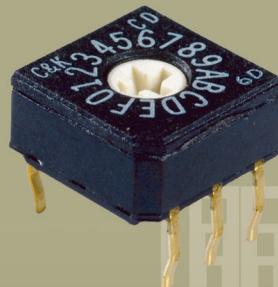
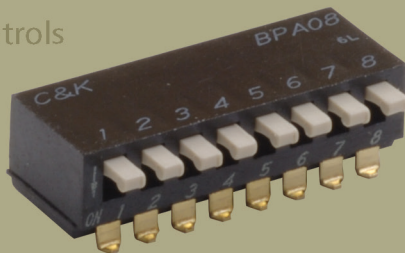
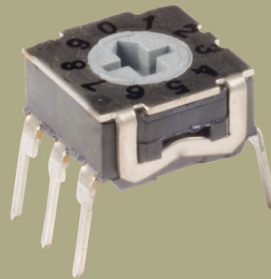
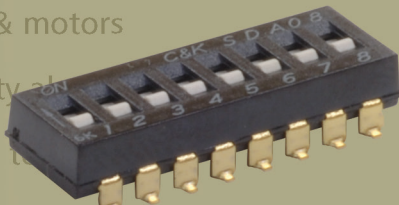
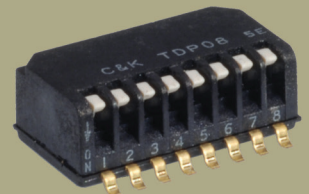
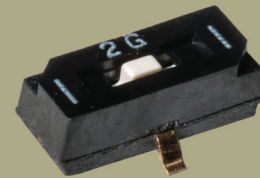
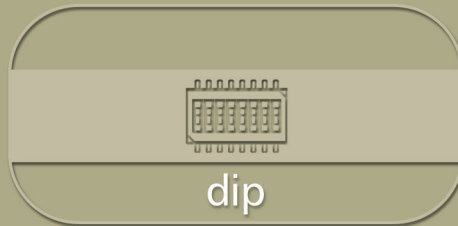
portable tools

pumps & motors

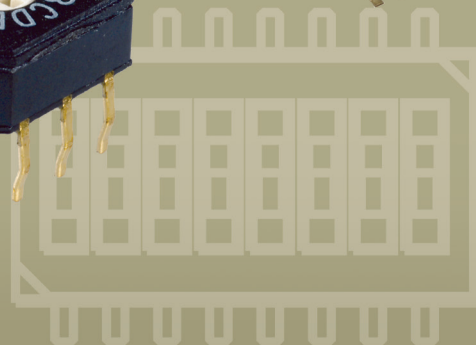
security

test equipment

thermostatic controls



DIP



DIP

Product Selection Guide



H

DIP

DIP					
Series	TDP	TDA	SDA	SD	BD
Switch Type	Half-pitch .050" Side actuated	Half-pitch .050"	Low Profile	Low Profile	Standard Profile
No. of Positions	2-10 (even only)	1 & 2-10 (even only)	1-12 (except 11)	2-12 (except 11)	1-12 (except 11)
Contact Style	SPST	SPST	SPST	SPST	SPST
Profile off PCB	.173 (4,4)	.087 (2,2)	.189 (4,80) Thru-hole .177 (4,5) SMT	.168 (4,27) Thru-hole .160 (4,06) SMT	.297 (7,55) Vertical .380 (9,65) Rt. Angle
Process Sealed	Washable with tape seal	Washable with tape seal	Washable (tape not required)	Washable with tape seal	Washable (tape not required)
Extended Actuator	•		•	•	•
Flush Actuator	•	•	•	•	
Thru-hole			•	•	•
Vertical		•	•	•	•
Right Angle	•				•
Surface Mount	•	•	•	•	
Tape & Reel (SMT only)	•	•	•	•	
Maximum Current	100mA	100mA	100mA	100mA	100mA
Page No.	H-5	H-8	H-11	H-15	H-18

					
Series	BPA	TDD	SPA	RTE	RTF
Switch Type	Side actuated	Jumper Switch	Single In-line Package	Rotary & Coded	Rotary & Coded
No. of Positions	1-12 (except 11)	1	2-10 (even only)	1, 10, 16	4, 10, 16
Contact Style	SPST	SPDT	SPST	Coded	Coded
Profile off PCB	.287 (7,3) Thru-hole .277 (7,04) SMT	.090 (2,3)	.244 (6,2) Vertical .169 (4,3) Rt. Angle	.167 (4,25) Thru-hole .335 (8,5) Rt. angle	See Datasheet
Process Sealed	Washable (tape not required)	Washable with tape seal	Washable (tape not required)	NA	IP67
Extended Actuator	•		•	•	•
Flush Actuator		•	•	•	•
Thru-hole	•		•	•	•
Vertical		•	•	•	•
Right Angle	•		•	•	•
Surface Mount	•	•	•	•	•
Tape & Reel (SMT only)	•	•	•	•	•
Maximum Current	100mA	100mA	10mA	100mA	100mA
Retention Feature			•	•	
Page No.	H-20	H-23	H-25	H-27	H-33

DIP

Product Selection Guide

DIP			
Series	CD	CRD	CRE
Switch Type	8 mm Coded Rotary	10 mm Coded Rotary	10 mm Coded Rotary
No. of Positions	1, 10, 16	10, 16	4, 6, 8, 10, 16
Contact Style	Coded	Coded	Coded
Profile off PCB	.168 (4,27) Thru-hole .340 (8,6) Rt. angle	.272 (6,9) Vertical .414 (10.5) Rt. angle	Multiple heights available
Process Sealed	Washable (tape not required)	Washable (tape not required)	Washable (tape not required)
Extended Actuator		•	•
Flush Actuator	•	•	•
Thru-hole	•	•	•
Vertical	•	•	
Right Angle	•	•	
Surface Mount	•	•	•
Tape & Reel (SMT only)	•	•	•
Maximum Current	0.4VA	0.4VA	150 mA
Retention Feature	• C option		
Page No.	H-37	H-41	H-45



H

DIP

TDP Series Ultra-miniature Surface Mount Half-pitch Side-Actuated DIP Switches



H
DIP

Features/Benefits

- **World's first ultra-miniature SMT half-pitch side-actuated DIP**
- **Side actuation allows visual indication of on/off position in horizontal applications**
- **Process sealed for surface mount soldering and washable processing**
- **RoHS compliant**
- **Lead free**

Typical Applications

- **Hand-held electronic devices**
- **Portable computer and electronic devices**
- **Instrumentation and controls**



Specifications

SWITCH FUNCTION: SPST — 2, 4, 6, 8, 10 positions.

CONTACT RATING:

24 V DC, 25 mA (switching).

50 V DC, 100 mA (steady state).

MECHANICAL AND ELECTRICAL LIFE: 1,000 cycles.

CONTACT RESISTANCE: 100 mΩ max.

INSULATION RESISTANCE: 100 MΩ @ 100 V DC min.

DIELECTRIC STRENGTH: 300 V AC min.

STORAGE TEMPERATURE: -40°C to 85°C.

OPERATING TEMPERATURE: -40°C to 85°C.

OPERATING FORCE: 4.9N max.

SOLDERABILITY: Per MIL-STD-202F method 208D, or

EIA RS-186E method 9 (1 hour steam aging).

PACKAGING: Switches supplied in rigid dispensing tubes in full tube quantities only, this may affect order quantity. Tape and reel packaging also available.

Materials

CASE & COVER: glass filled PPS (UL94V-0).

ACTUATOR: PA6T (UL94V-0).

CONTACTS: Copper alloy with gold plate over nickel plate.

TERMINALS: Copper alloy, with gold over nickel plate.

All terminals are insert molded.

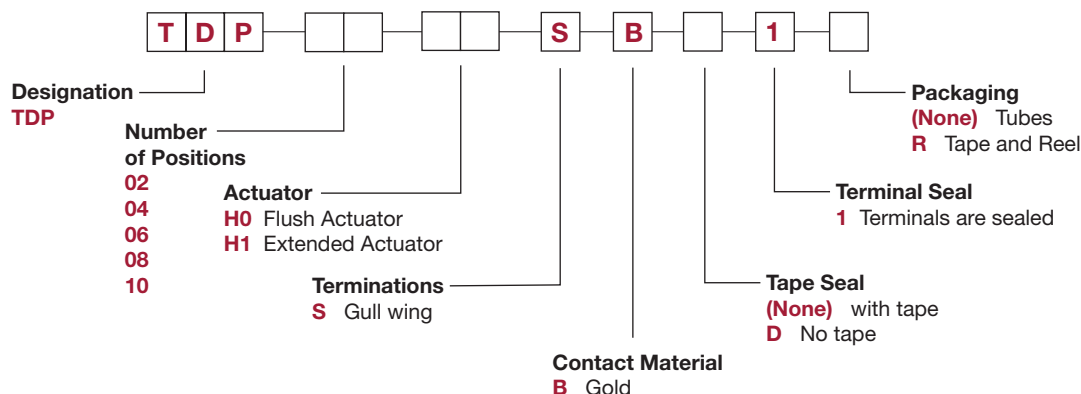
TAPE SEAL: Polyimide.

Note: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

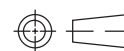
How To Order

The Build-A Switch concept allows you to mix and match options to create the switch you need. Below is a complete listing of options shown in catalog. To order, simply select desired option from each category and place in the appropriate box.

All switches supplied in "OFF" position.



Note: Tape seal is not available with H1 Extended Actuators.



Third Angle
Projection



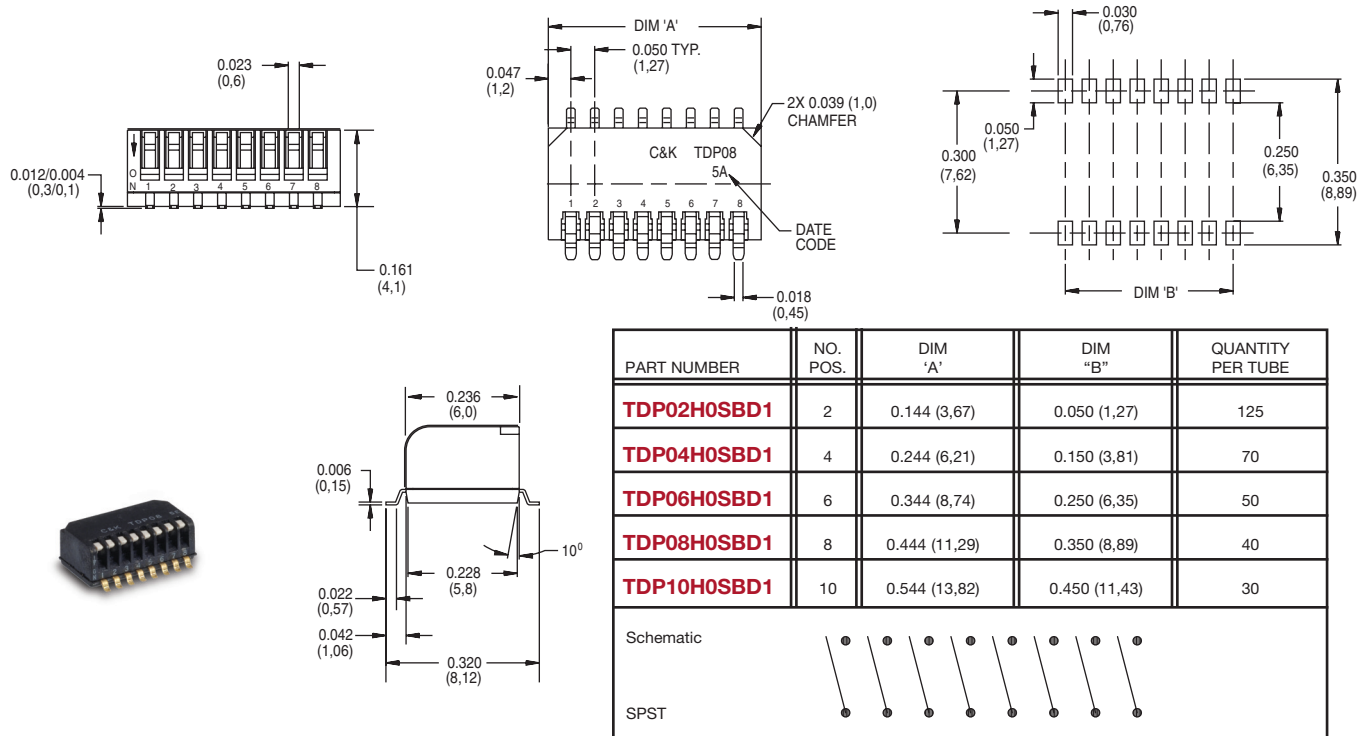
Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

TDP Series

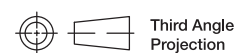
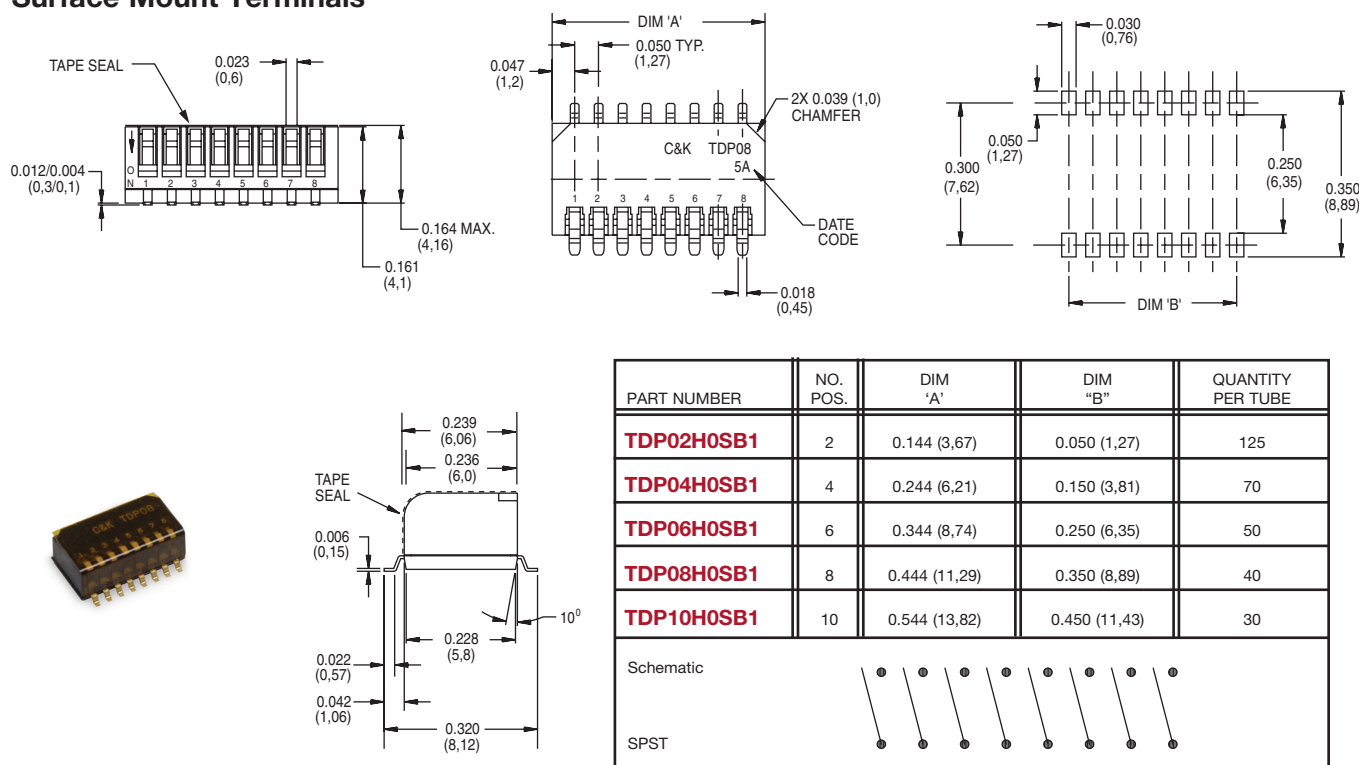
Ultra-miniature Surface Mount

Half-pitch Side-Actuated DIP Switches

Flush Actuator-No Top Tape,
Surface Mount Terminals



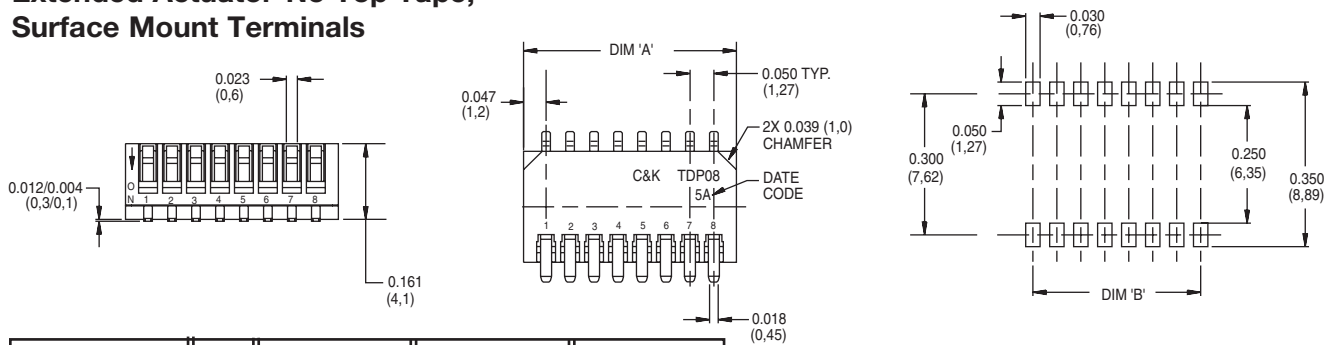
Flush Actuator-with Top Tape,
Surface Mount Terminals



Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

TDP Series Ultra-miniature Surface Mount Half-pitch Side-Actuated DIP Switches

Extended Actuator-No Top Tape, Surface Mount Terminals

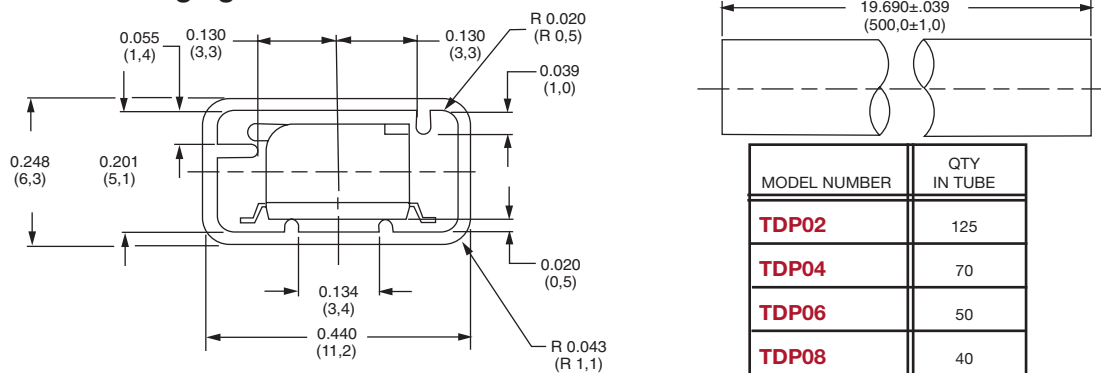


PART NUMBER	NO. POS.	DIM 'A'	DIM 'B'	QUANTITY PER TUBE
TDP02H1SBD1	2	0.144 (3,67)	0.050 (1,27)	125
TDP04H1SBD1	4	0.244 (6,21)	0.150 (3,81)	70
TDP06H1SBD1	6	0.344 (8,74)	0.250 (6,35)	50
TDP08H1SBD1	8	0.444 (11,29)	0.350 (8,89)	40
TDP10H1SBD1	10	0.544 (13,82)	0.450 (11,43)	30

Schematic

SPST

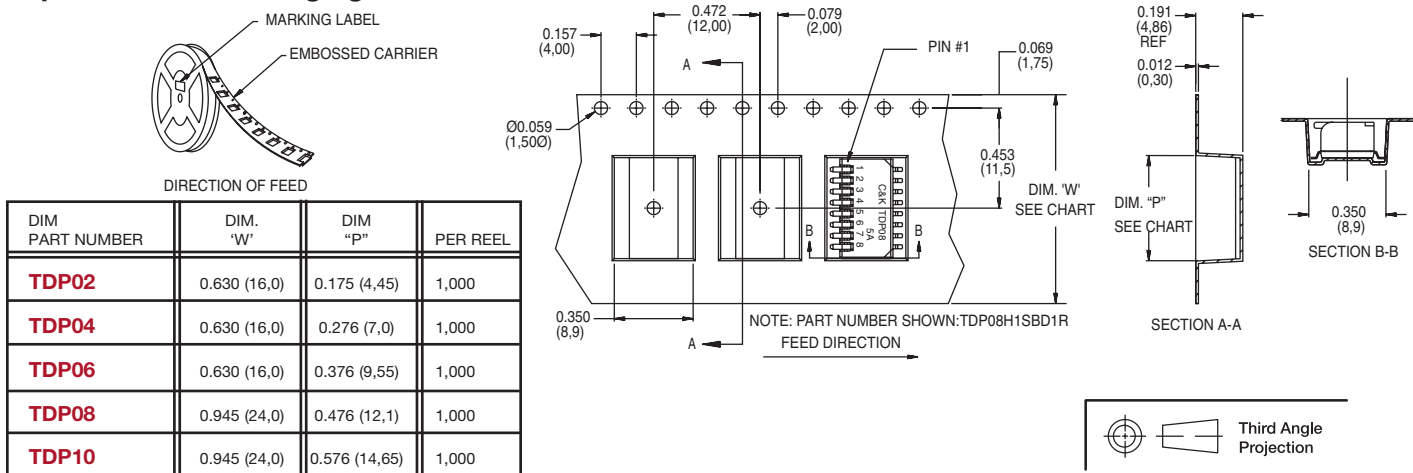
Tube Packaging



Note: Switch shown has H1 extended actuator.

MODEL NUMBER	QTY IN TUBE
TDP02	125
TDP04	70
TDP06	50
TDP08	40
TDP10	30

Tape and Reel Packaging



DIM PART NUMBER	DIM. 'W'	DIM. 'P'	PER REEL
TDP02	0.630 (16,0)	0.175 (4,45)	1,000
TDP04	0.630 (16,0)	0.276 (7,0)	1,000
TDP06	0.630 (16,0)	0.376 (9,55)	1,000
TDP08	0.945 (24,0)	0.476 (12,1)	1,000
TDP10	0.945 (24,0)	0.576 (14,65)	1,000

C&K

Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

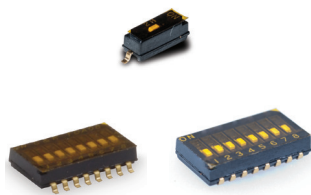
TDA Series

Ultra-miniature Surface Mount Half-pitch DIP Switches

REPRESENTATIVE
DIMENSIONS

H

DIP



Features/Benefits

- Bifurcated contact for increased electrical reliability
- Process sealed for surface mount soldering and washable processing
- RoHS compliant

Typical Applications

- Hand-held electronic devices
- Portable computer and electronic devices
- Instrumentation and controls

Specifications

SWITCH FUNCTION: SPST – 1, 2, 4, 6, 8 & 10 positions.

CONTACT RATING:

24 V DC, 25 mA (switching).

50 V DC, 100 mA (steady state).

MECHANICAL AND ELECTRICAL LIFE: 1,000 cycles.

CONTACT RESISTANCE: 100 mΩ max.

INSULATION RESISTANCE: 100 MΩ @ 100 V DC min.

DIELECTRIC STRENGTH: 300 V AC min.

STORAGE TEMPERATURE: -40°C to 85°C.

OPERATING TEMPERATURE: -40°C to 85°C.

OPERATING FORCE: 4,9N max.

SOLDERABILITY: Per MIL-STD-202F method 208D, or
EIA RS-186E method 9 (1 hour steam aging).

PACKAGING: Switches supplied in rigid dispensing tubes in full tube quantities only, this may affect order quantity. Numbers of switches per tube varies with model. Tape and reel packaging quantity varies with model.

Materials

CASE & COVER: PPS (UL94V-0)

ACTUATOR: LCP (UL94V-0).

CONTACTS: Copper alloy, with gold plate over nickel plate.

TERMINALS: Copper alloy, with gold flash over nickel plate.

All terminals are insert molded.

TAPE SEAL: Polyimide.

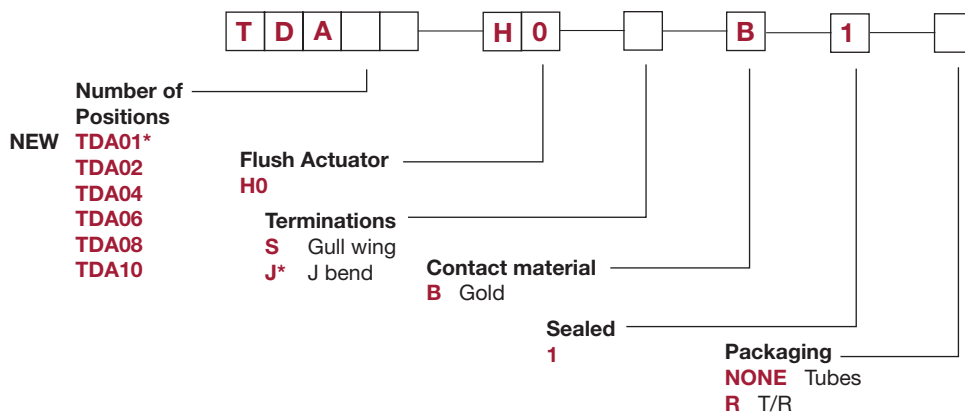
Note: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

Note: All switches supplied in "OFF" position.

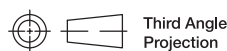
How To Order

The Build-A Switch concept allows you to mix and match options to create the switch you need. Below is a complete listing of options shown in catalog. To order, simply select desired option from each category and place in the appropriate box.

All switches supplied in "OFF" position.



* TDA01H0JB1R is not available, TDA01 only offered in tape & reel

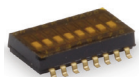


Dimensions are shown: mm
Specifications and dimensions subject to change

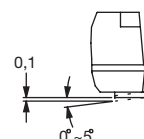
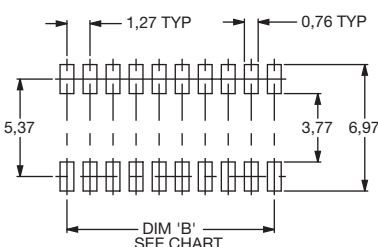
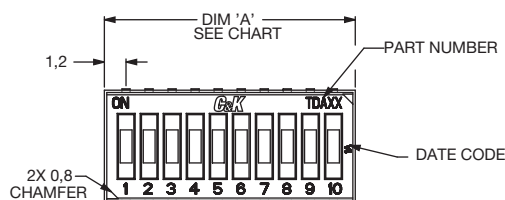
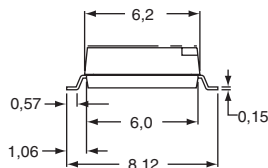
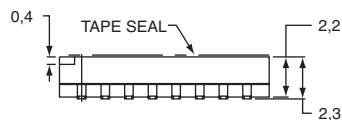
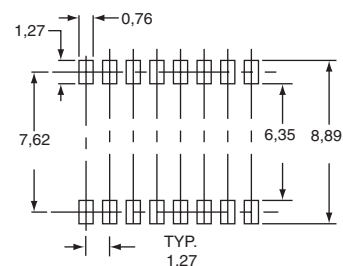
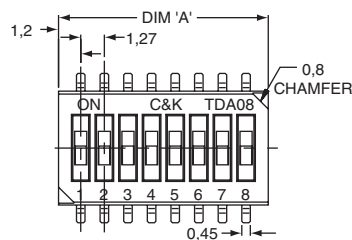
TDA Series Ultra-miniature Surface Mount Half-pitch DIP Switches



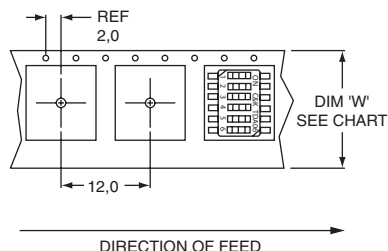
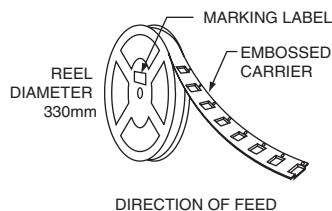
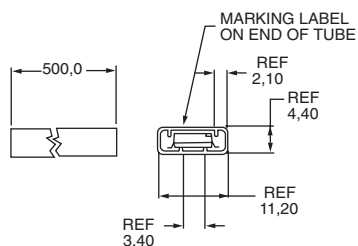
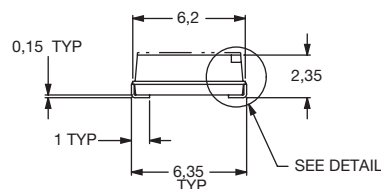
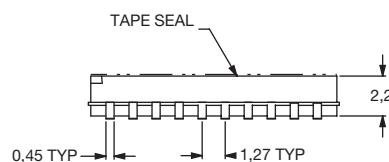
H
DIP



TDA08H0SB1



TDA10H0JB1



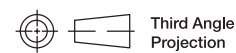
Tube Package

ROHS PART NUMBER	NO. POS.	DIM. 'A'	DIM. 'B'	QUANTITY PER TUBE
TDA01H0SB1	1	2,40	NA	NA
TDA02H0_B1	2	3,67	1,27	125
TDA04H0_B1	4	6,21	3,81	70
TDA06H0_B1	6	8,75	6,35	50
TDA08H0_B1	8	11,29	8,89	40
TDA10H0_B1	10	13,83	11,43	30
Schematic				
SPST				

Tape & Reel Package

ROHS PART NUMBER	NO. POS.	DIM. 'W'	QUANTITY PER REEL
TDA01H0SB1R*	1	16,0	2500
TDA02H0_B1R	2	16,0	2000
TDA04H0_B1R	4	16,0	2000
TDA06H0_B1R	6	16,0	2000
TDA08H0_B1R	8	24,0	2000
TDA10H0_B1R	10	24,0	2000

* see next page for TDA01 tape & reel drawing



Dimensions are shown: mm
Specifications and dimensions subject to change

www.ckswitches.com

TDA Series

Ultra-miniature Surface Mount Half-pitch DIP Switches

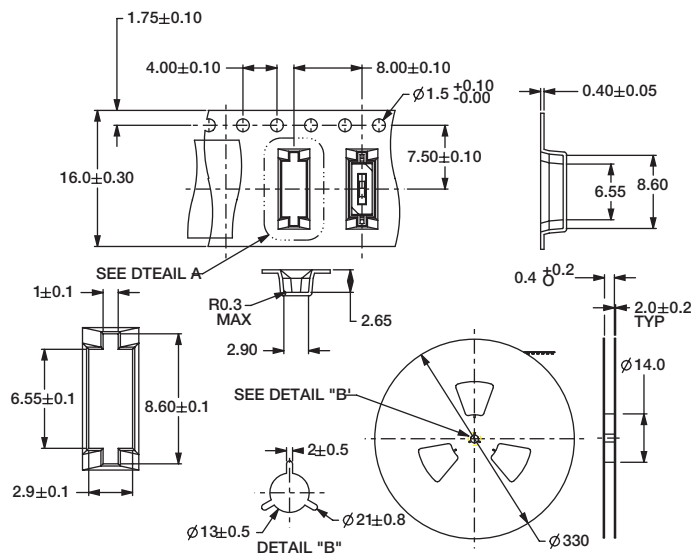


DIP

H



TDA01H0SB1R



SDA Series Low Profile DIP Switches

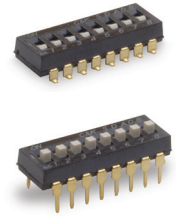
**H****DIP**

Features/Benefits

- Low profile design saves space
- Thru-hole and surface mount models
- Tape and reel packaging available
- RoHS compliant

Typical Applications

- Address switch for industrial controls
- Logic switching for computers and peripherals
- Function controlling for numerous applications



Specifications

CONTACT RATING: 25 mA @ 24 V DC or 100 mA @ 5 V DC.

MECHANICAL AND ELECTRICAL LIFE: 1,000 cycles at rated loads.

CONTACT RESISTANCE: 50 mΩ max. initial.

INSULATION RESISTANCE: 100 MΩ between terminals.

DIELECTRIC WITHSTANDING VOLTAGE: 300 V DC min. for 1 minute.

STORAGE TEMPERATURE: -40°C to 85°C.

OPERATING TEMPERATURE: -40°C to 85°C.

OPERATING FORCE: 800 grams max.

SOLDERABILITY: Dip and look solderability testing per C&K spec. #448. Unplated edges of terminals permitted.

PACKAGING: Switches supplied in rigid dispensing tubes in full-tube quantities only, this may affect order quantity. Numbers of switches per tube varies with model. Tape and reel pack-

aging also available for surface mount options.

Materials

HOUSING: PPS, color black (UL94V-0).

COVER: PPS, color black (UL94V-0).

ACTUATOR: PA6T (UL94-0)

CONTACTS: Gold plated Beryllium copper.

TERMINALS: Gold plate over nickel plated brass.

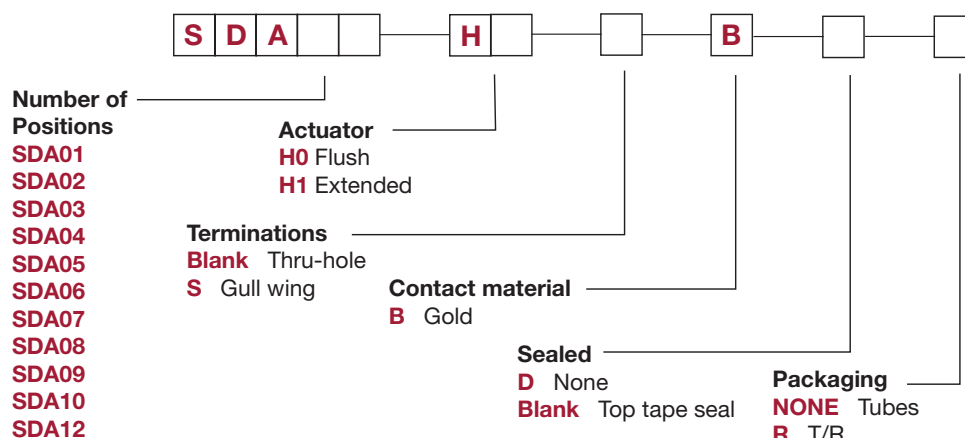
TAPE SEAL: Polyimide.

Note: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center. For Tin Lead options consult customer service center.

How To Order

The Build-A Switch concept allows you to mix and match options to create the switch you need. Below is a complete listing of options shown in catalog. To order, simply select desired option from each category and place in the appropriate box.

All switches supplied in "OFF" position.

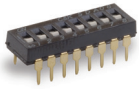


Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

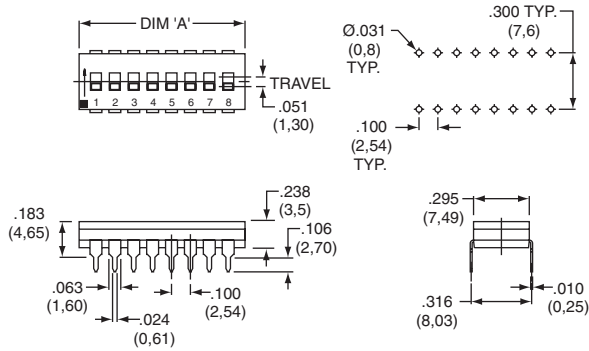
SDA Series

Low Profile DIP Switches

Flush Actuator – No Tape, Thru-hole Terminals



SDA08H0BD

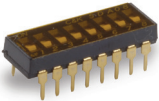


NOTE: SDA 01 options are 4,25mm thick

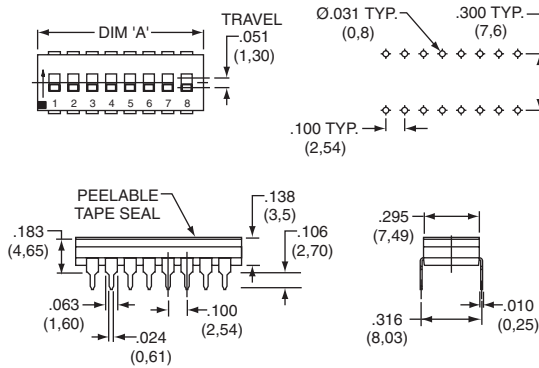
ROHS PART NUMBER	NO. POS.	DIM. 'A'	QUANTITY PER TUBE
SDA01H0BD	1	.178 (4,52)	100
SDA02H0BD	2	.278 (7,06)	60
SDA03H0BD	3	.378 (9,60)	45
SDA04H0BD	4	.476 (12,10)	35
SDA05H0BD	5	.578 (14,68)	30
SDA06H0BD	6	.676 (17,18)	25
SDA07H0BD	7	.778 (19,76)	20
SDA08H0BD	8	.876 (22,26)	20
SDA09H0BD	9	.978 (24,84)	15
SDA10H0BD	10	1.076 (27,34)	15
SDA12H0BD	12	1.279 (32,50)	14

Schematic	
SPST	

Flush Actuator – With Top Tape, Thru-hole Terminals



SDA08H0B



NOTE: SDA 01 options are 4,25mm thick

ROHS PART NUMBER	NO. POS.	DIM. 'A'	QUANTITY PER TUBE
SDA01H0B	1	.178 (4,52)	100
SDA02H0B	2	.278 (7,06)	60
SDA03H0B	3	.378 (9,60)	45
SDA04H0B	4	.476 (12,10)	35
SDA05H0B	5	.578 (14,68)	30
SDA06H0B	6	.676 (17,18)	25
SDA07H0B	7	.778 (19,76)	20
SDA08H0B	8	.876 (22,26)	20
SDA09H0B	9	.978 (24,84)	15
SDA10H0B	10	1.076 (27,34)	15
SDA12H0B	12	1.279 (32,50)	14

Schematic	
SPST	

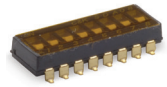
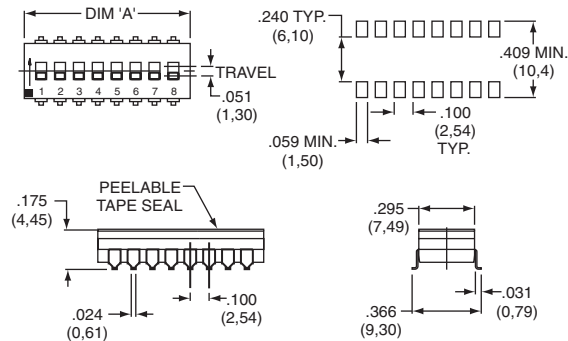
SDA Series Low Profile DIP Switches

Flush Actuator – With Top Tape, Surface Mount Terminals

ROHS PART NUMBER	NO. POS.	DIM. 'A'	QUANTITY PER TUBE
SDA01H0SB	1	.178 (4,52)	100
SDA02H0SB	2	.278 (7,06)	60
SDA03H0SB	3	.378 (9,60)	45
SDA04H0SB	4	.476 (12,10)	35
SDA05H0SB	5	.578 (14,68)	30
SDA06H0SB	6	.676 (17,18)	25
SDA07H0SB	7	.778 (19,76)	20
SDA08H0SB	8	.876 (22,26)	20
SDA09H0SB	9	.978 (24,84)	15
SDA10H0SB	10	1.076 (27,34)	15
SDA12H0SB	12	1.279 (32,50)	14

Schematic

SPST



SDA08H0SB

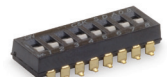
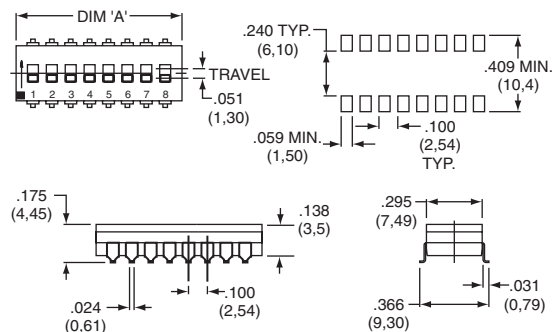
NOTE: SDA 01 options are 4,25mm thick

Flush Actuator – No Tape, Surface Mount Terminals

ROHS PART NUMBER	NO. POS.	DIM. 'A'	QUANTITY PER TUBE
SDA01H0SBD	1	.178 (4,52)	100
SDA02H0SBD	2	.278 (7,06)	60
SDA03H0SBD	3	.378 (9,60)	45
SDA04H0SBD	4	.476 (12,10)	35
SDA05H0SBD	5	.578 (14,68)	30
SDA06H0SBD	6	.676 (17,18)	25
SDA07H0SBD	7	.778 (19,76)	20
SDA08H0SBD	8	.876 (22,26)	20
SDA09H0SBD	9	.978 (24,84)	15
SDA10H0SBD	10	1.076 (27,34)	15
SDA12H0SBD	12	1.279 (32,50)	14

Schematic

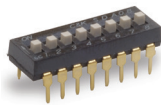
SPST



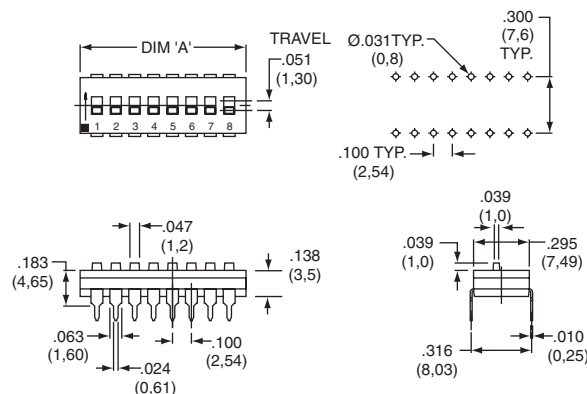
SDA08H0SBD

NOTE: SDA 01 options are 4,25mm thick

Extended Actuator – No Top Tape, Thru-hole Terminals



SDA08H1BD

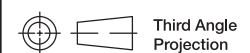


NOTE: SDA 01 options are 4,25mm thick

ROHS PART NUMBER	NO. POS.	DIM. 'A'	QUANTITY PER TUBE
SDA01H1BD	1	.178 (4,52)	100
SDA02H1BD	2	.278 (7,06)	60
SDA03H1BD	3	.378 (9,60)	45
SDA04H1BD	4	.476 (12,10)	35
SDA05H1BD	5	.578 (14,68)	30
SDA06H1BD	6	.676 (17,18)	25
SDA07H1BD	7	.778 (19,76)	20
SDA08H1BD	8	.876 (22,26)	20
SDA09H1BD	9	.978 (24,84)	15
SDA10H1BD	10	1.076 (27,34)	15
SDA12H1BD	12	1.279 (32,50)	14

Schematic

SPST



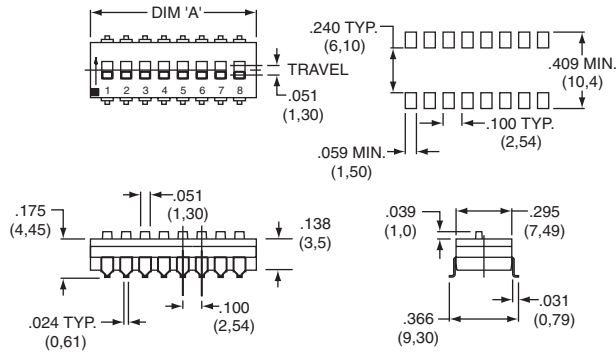
Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

SDA Series Low Profile DIP Switches

Extended Actuator – No Top Tape, Surface Mount Terminals



SDA08H1SBD



NOTE: SDA 01 options are 4,25mm thick

ROHS PART NUMBER	NO. POS.	DIM. 'A'	QUANTITY PER TUBE
SDA01H1SBD	1	.178 (4,52)	100
SDA02H1SBD	2	.278 (7,06)	60
SDA03H1SBD	3	.378 (9,60)	45
SDA04H1SBD	4	.476 (12,10)	35
SDA05H1SBD	5	.578 (14,68)	30
SDA06H1SBD	6	.676 (17,18)	25
SDA07H1SBD	7	.778 (19,76)	20
SDA08H1SBD	8	.876 (22,26)	20
SDA09H1SBD	9	.978 (24,84)	15
SDA10H1SBD	10	1.076 (27,34)	15
SDA12H1SBD	12	1.279 (32,50)	14

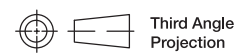
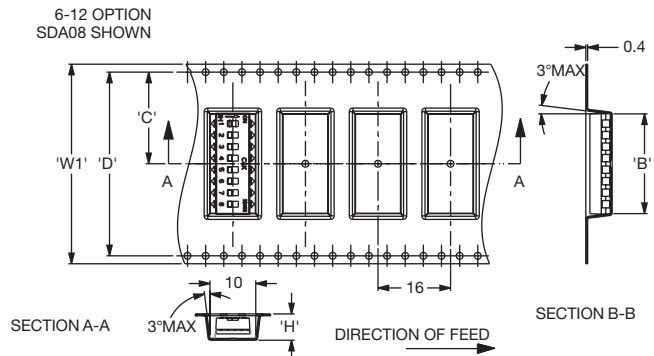
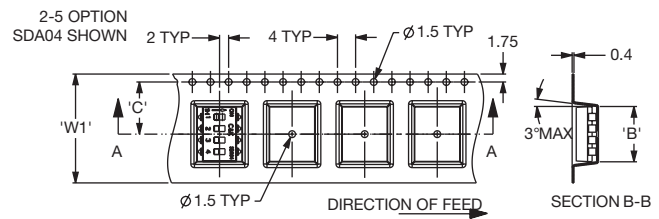
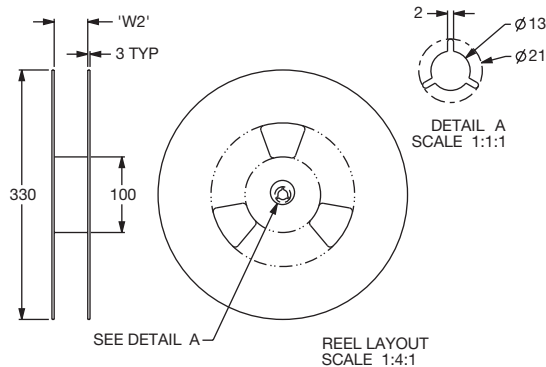
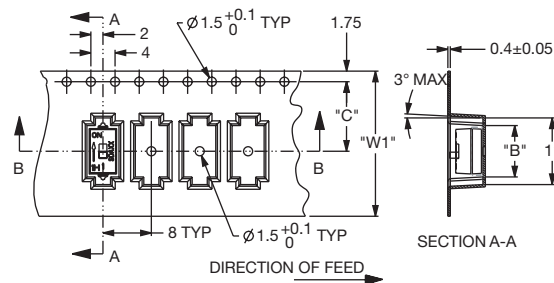
Schematic

SPST

Tape & Reel Packaging – Surface Mount Options only

MODEL NO. 'S' OPTION	DIM. 'H' (REF.)	DIM. 'W1' (REF.)	DIM. 'W2' (REF.)	DIM. 'B' (REF.)	DIM. 'C' (REF.)	DIM. 'D' (REF.)	QUANTITY PER REEL
SDA01	H0 5.2	24.0	24.4	8.5	11.5	N/A	1500
	H1 5.8						1450
SDA02	H0 4.8	24.0	24.4	7.9	11.5	N/A	750
	H1 5.8						700
SDA03	H0 4.8	24.0	24.4	10.4	11.5	N/A	750
	H1 5.8						700
SDA04	H0 4.8	24.0	24.4	12.9	11.5	N/A	750
	H1 5.8						700
SDA05	H0 4.8	24.0	24.4	15.4	11.5	N/A	750
	H1 5.8						700
SDA06	H0 4.8	32.0	32.4	18.0	14.2	28.4	750
	H1 5.8						700
SDA07	H0 4.8	32.0	32.4	20.5	14.2	28.4	750
	H1	NOT CURRENTLY AVAILABLE IN TAPE AND REEL					
SDA08	H0 4.8	44.0	44.4	22.7	20.2	40.4	750
	H1 5.8						700
SDA09	H0 4.8	44.0	44.4	25.5	20.2	40.4	750
	H1 5.8						700
SDA10	H0 4.8	44.0	44.0	28.1	20.2	40.4	750
	H1 5.8						700
SDA12	H0 4.8	44.0	44.4	33.2	20.2	40.4	750
	H1	NOT CURRENTLY AVAILABLE IN TAPE AND REEL					

SDA01H1SBD OPTION SHOWN



Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

SD Series Low Profile DIP Switches

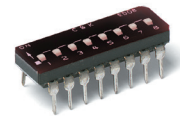
**H****DIP**

Features/Benefits

- Low profile design saves space
- Thru-hole and surface mount models
- Tape and reel packaging available
- Sealed with top tape
- RoHS compliant

Typical Applications

- Address switch for industrial controls
- Logic switching for computers and peripherals
- Function controlling for numerous applications



Specifications

SWITCH FUNCTION: SPST - 2, 3, 4, 5, 6, 7, 8, 9, 10 & 12 positions

CONTACT RATING:

Carry: 100 mA @ 50 V DC max.

Switch: 0.1 mA @ 5 V DC min to 100 mA @ 25 V DC max.

MECHANICAL AND ELECTRICAL LIFE: 2,000 make-and-break cycles at full load, each circuit.

CONTACT RESISTANCE: Below 50 milliohms typ. initial @ 2-4 V DC, 100mA.

INSULATION RESISTANCE: 10⁹ ohms min.

DIELECTRIC STRENGTH: 500 V RMS min. @ sea level between adjacent terminals.

STORAGE TEMPERATURE: -40°C to 85°C.

OPERATING TEMPERATURE: -40°C to 85°C.

OPERATING FORCE: 100-700g initial.

PACKAGING: Thru-hole switches supplied in rigid dispensing tubes in full-tube quantities only; this may effect order quantity. Surface mount switches available in tape and reel packaging by added 'R' to end of part number; 1,000 pieces per reel. Switch position 1 denotes pin number 1. All switch actuators in 'OFF' position, standard.

Materials

CASE & COVER: (PPA), flame retardant (UL 94V-0)

ACTUATOR: Nylon, flame retardant (UL 94V-0)

CONTACTS: BeCu with gold plate.

TERMINALS: Bright tin-plated brass.

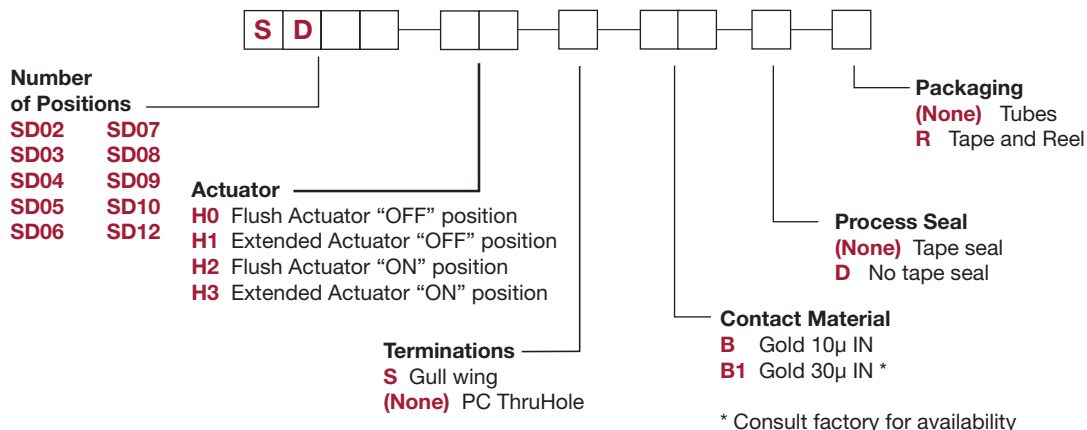
TERMINAL SEAL: All terminals insert molded.

TAPE SEAL: Polyimide.

Note: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

How To Order

The Build-A Switch concept allows you to mix and match options to create the switch you need. Below is a complete listing of options shown in catalog. To order, simply select desired option from each category and place in the appropriate box.

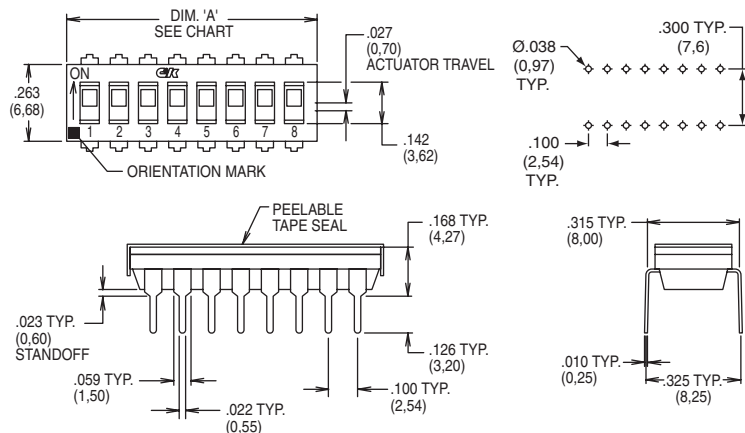


SD Series

Low Profile DIP Switches

Sealed Flush Actuator – With Top Tape, Thru-hole Terminals

Process sealed - withstands soldering and cleaning processes



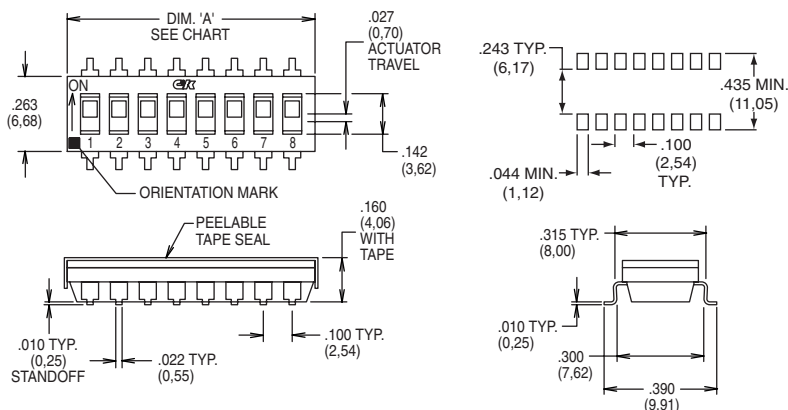
ROHS PART NUMBER	NO. POS.	DIM. 'A'	QUANTITY PER TUBE
SD02H0B	2	.258 (6,55)	85
SD03H0B	3	.358 (9,09)	60
SD04H0B	4	.458 (11,63)	45
SD05H0B	5	.558 (14,17)	40
SD06H0B	6	.658 (16,71)	30
SD07H0B	7	.758 (19,25)	25
SD08H0B	8	.858 (21,79)	25
SD09H0B	9	.958 (24,33)	20
SD10H0B	10	1.058 (26,87)	20
SD12H0B	12	1.258 (31,95)	15

Schematic

SPST

Table applicable to "H0" and "H2" actuator options.

Sealed Flush Actuator – With Top Tape, Surface Mount Terminals



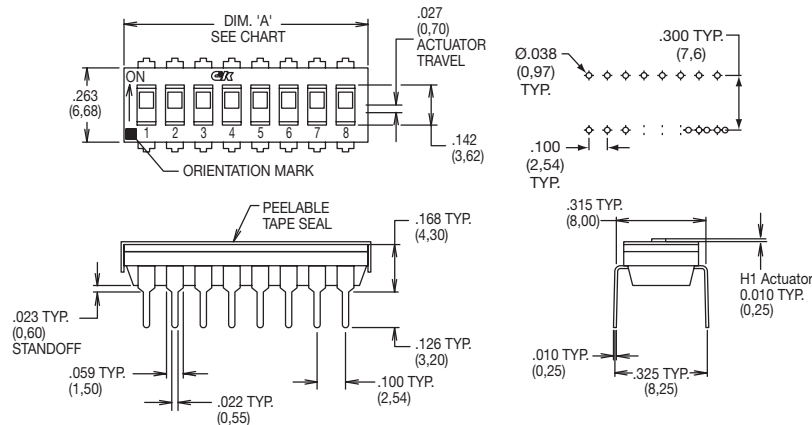
RoHS PART NUMBER	NO. POS.	DIM. 'A'	QUANTITY PER TUBE
SD02H0SB	2	.258 (6,55)	85
SD03H0SB	3	.358 (9,09)	60
SD04H0SB	4	.458 (11,63)	45
SD05H0SB	5	.558 (14,17)	40
SD06H0SB	6	.658 (16,71)	30
SD07H0SB	7	.758 (19,25)	25
SD08H0SB	8	.858 (21,79)	25
SD09H0SB	9	.958 (24,33)	20
SD10H0SB	10	1.058 (26,87)	20
SD12H0SB	12	1.258 (31,95)	15

Schematic

SPST

Table applicable to "H0" and "H2" actuator options.

Sealed Extended Actuator – With Top Tape, Thru-hole Terminals

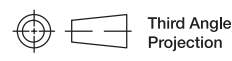


RoHS PART NUMBER	NO. POS.	DIM. 'A'	QUANTITY PER TUBE
SD02H1B	2	.258 (6,55)	85
SD03H1B	3	.358 (9,09)	60
SD04H1B	4	.458 (11,63)	45
SD05H1B	5	.558 (14,17)	40
SD06H1B	6	.658 (16,71)	30
SD07H1B	7	.758 (19,25)	25
SD08H1B	8	.858 (21,79)	25
SD09H1B	9	.958 (24,33)	20
SD10H1B	10	1.058 (26,87)	20
SD12H1B	12	1.258 (31,95)	15

Schematic

SPST

Table applicable to "H1" and "H3" actuator options.



Third Angle
Projection

SD Series Low Profile DIP Switches

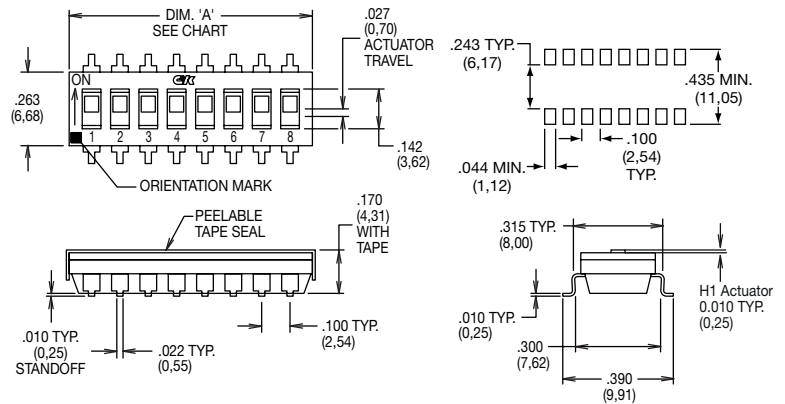
Sealed Extended Actuator – With Top Tape, Surface Mount Terminals

RoHS PART NUMBER	NO. POS.	DIM. 'A'	QUANTITY PER TUBE
SD02H1SB	2	.258 (6,55)	85
SD03H1SB	3	.358 (9,09)	60
SD04H1SB	4	.458 (11,63)	45
SD05H1SB	5	.558 (14,17)	40
SD06H1SB	6	.658 (16,71)	30
SD07H1SB	7	.758 (19,25)	25
SD08H1SB	8	.858 (21,79)	25
SD09H1SB	9	.958 (24,33)	20
SD10H1SB	10	1.058 (26,87)	20
SD12H1SB	12	1.258 (31,95)	15

Schematic

SPST

Table applicable to "H1" and "H3" actuator options.



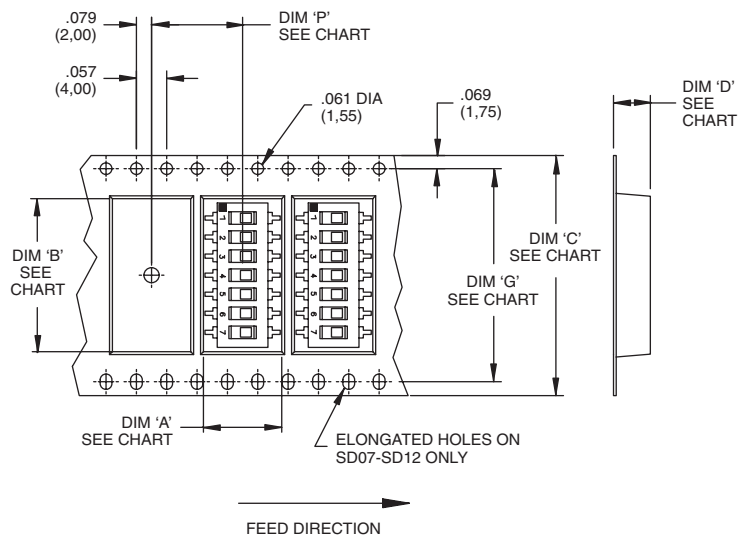
TAPE & REEL PACKAGING – SURFACE MOUNT OPTIONS ONLY

RoHS PART NUMBER	NO. POS.	DIM. 'A'	QUANTITY PER REEL
SD02H0SBR	2	.258 (6,55)	1000
SD03H0SBR	3	.358 (9,09)	1000
SD04H0SBR	4	.458 (11,63)	1000
SD05H0SBR	5	.558 (14,17)	1000
SD06H0SBR	6	.658 (16,71)	1000
SD07H0SBR	7	.758 (19,25)	1000
SD08H0SBR	8	.858 (21,79)	1000
SD09H0SBR	9	.958 (24,33)	1000
SD10H0SBR	10	1.058 (26,87)	1000
SD12H0SBR	12	1.258 (31,95)	1000

Schematic

SPST

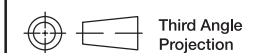
Table applicable to "H0" and "H2" actuator options.



SWITCH NO.	DIM 'A' POCKET LENGTH @ BOTTOM	DIM 'B' POCKET LENGTH @ BOTTOM	DIM 'C' TAPE WIDTH	DIM 'D' POCKET DEPTH	DIM 'G' SPROCKET HOLE SPACING	DIM 'P' PITCH BETWEEN POCKETS
SD02	.413(10,5)	.315(8,0)	.630(16,0)	.177(4,5)	N/A	.472(12,0)
SD03	.406(10,3)	.406(10,3)	.630(16,0)	.177(4,5)	N/A	.472(12,0)
SD04	.429(10,9)	.476(12,1)	.954(24,0)	.177(4,5)	N/A	.472(12,0)
SD05	.406(10,3)	.602(15,3)	.954(24,0)	.177(4,5)	N/A	.472(12,0)
SD06	.406(10,3)	.701(17,8)	.954(24,0)	.177(4,5)	N/A	.472(12,0)
SD07	.406(10,3)	.803(20,4)	1.260(32,0)	.177(4,5)	1.118(28,4)	.472(12,0)
SD08	.406(10,3)	.854(21,7)	1.732(44,0)	.177(4,5)	1.591(40,4)	.472(12,0)
SD09	.406(10,3)	1.028(26,1)	1.732(44,0)	.177(4,5)	1.591(40,4)	.472(12,0)
SD10	.406(10,3)	1.055(26,8)	1.732(44,0)	.177(4,5)	1.591(40,4)	.472(12,0)
SD12	.406(10,3)	1.303(33,1)	1.732(44,0)	.177(4,5)	1.591(40,4)	.472(12,0)

Reel Information

Outside diameter 13.00 (333,0)
Pilot hole .512 (13,0)



Third Angle
Projection

DIP



- ***Traditional full profile DIP switch***
- ***Extended actuator for easy actuation***
- ***Open bottom construction allows for solder washing without the need for tape seal***
- ***RoHS compliant***

- **Address switch for industrial controls**
- **Logic switching for computers and peripherals**
- **Function controlling for numerous applications**

SWITCH FUNCTION: SPST - 1 thru 12 position available
(except 11 position).

Carry: 100 mA max. @ 50 V DC.

Switch: 100 mA max. @ 5 V DC or 25 mA max. @ 25 V DC.

MECHANICAL AND ELECTRICAL LIFE: 10,000 make-and-break cycles at full load, each circuit.

CONTACT RESISTANCE: Below 50 milliohms typ. initial
@ 2-4 V DC 100mA.

INSULATION RESISTANCE: 10^9 ohms min.

DIELECTRIC STRENGTH: 500 V RMS min. @ sea level between adjacent terminals.

CAPACITANCE: 5pF max. between adjacent terminals.

STORAGE & OPERATING TEMPERATURE: -40°C to 85°C.

SHOCK: Withstands 20g 11 ms sawtooth waveform with no contact opening greater than 10 microseconds.

VIBRATION: No contact opening greater than 10 microseconds and no contact closure when exposed to vibration .06 in DA or 5g, whichever is less, from 10 to 55 Hz, and 10g from 55 to 500 Hz.

SOLDERABILITY: Per MIL-STD-202F method 208D, or EIA RS-186E method 9 (1 hour steam aging).

PACKAGING: Switches supplied in rigid dispensing tubes in full-tube quantities only; this may effect order quantity. Number of switches per tube varies with model. Switch position 1 denotes pin number 1. All switch actuators in 'OFF' position, standard.

CASE & COVER: Glass filled polyester (PBT),
flame retardant (UL 94V-0).

ACTUATOR: Glass filled nylon 6/6, flame retardant,
heat stabilized (UL 94V-0)

CONTACTS: Gold over nickel over phosphor bronze.

TERMINALS: Matte-tin over nickel over phosphor bronze.

Note: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

Technical drawings of the 8-pin DIP package showing top, side, and detail views with dimensions in inches and millimeters.

Top View:

- Overall width: DIM 'A'
- Pin 1 indicator: ON with arrow pointing to pin 1
- Pin numbers: 1, 2, 3, 4, 5, 6, 7, 8
- Pin height: .380 (9,65)
- Pin pitch: .160 TYP. (4,06)
- Pin diameter: .062 (1,58) MAX ACTUATOR TRAVEL
- Pin spacing: .038 TYP. (0,97)
- Pin diameter: .100 TYP. (2,54)
- Pin diameter: .297 (7,55)
- Overall length: DIM 'B'

Side View:

- Pin height: .265 (6,73)
- Pin pitch: .059 TYP. (1,5)
- Pin diameter: .030 (0,77)
- Pin diameter: .089 (2,26)
- Pin pitch: .100 TYP. (2,54)
- Pin diameter: .020 TYP. (0,51)
- Pin diameter: .141 TYP. (3,58)

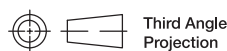
Detail View:

- Pin diameter: .080 TYP. (2,03)
- Pin diameter: .032 (0,82) TYP.
- Pin diameter: .006 (0,16)
- Pin diameter: .297 (7,55)

PART NUMBER	NO.POS.	DIM. 'A'	DIM. 'B'	QUANTITY PER TUBE
BD01	1	.180 (4,57)	NA	115
BD02	2	.280 (7,11)	.100 (2,54)	74
BD03	3	.380 (9,65)	.200 (5,08)	54
BD04	4	.480 (12,19)	.300 (7,62)	43
BD05	5	.580 (14,73)	.400 (10,16)	35
BD06	6	.680 (17,27)	.500 (12,75)	30
BD07	7	.780 (19,81)	.600 (15,24)	26
BD08	8	.880 (22,35)	.700 (17,78)	23
BD09	9	.980 (24,89)	.800 (20,32)	21
BD10	10	1.080 (27,43)	.900 (22,86)	19
BD12	12	1.280 (32,51)	1.100 (27,94)	16

Schematic

SPST



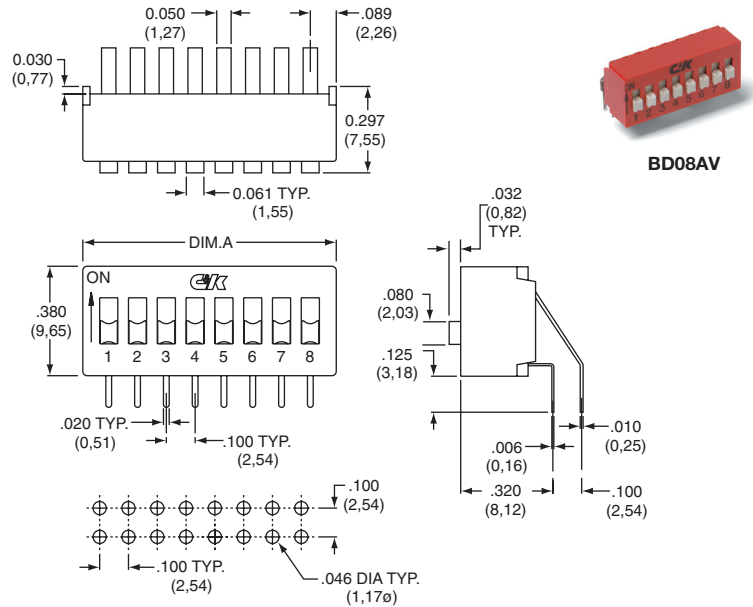
Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

BD Series Standard Profile DIP Switches

Open Base and AV Right Angle Terminal Style

PART NUMBER	NO.POS.	DIM. 'A'	QUANTITY PER TUBE
BD02AV	2	.280 (7,11)	72
BD03AV	3	.380 (9,65)	52
BD04AV	4	.480 (12,19)	42
BD05AV	5	.580 (14,73)	35
BD06AV	6	.680 (17,27)	29
BD07AV	7	.780 (19,81)	26
BD08AV	8	.880 (22,35)	23
BD09AV	9	.980 (24,89)	20
BD10AV	10	1.080 (27,43)	18
BD12AV	12	1.280 (32,51)	15

Schematic			
SPST			



Installation, Soldering and Cleaning

All BD Series Standard Profile DIP Switches can be hand soldered or machine soldered without the use of boot, caps, tapes or special attention. Open base washable models have unique design, allowing solvent cleaners and water/detergent solutions to flush and clean the electrical contacts of the contaminants and fluxes. For best results, follow these directions:

- 1) Wave soldering recommended at 500° F (260°C) solder temperature.
- 2) Hand solder using 30 watt small tip iron controlled at 500° F (260°C), 10 seconds max./terminal.
- 3) Open base washable models: Clean flux using forced rinse, high agitation or triple bath cleaning method.
DO NOT mask or cover switch in any way during cleaning. Switch is designed for easy solvent flush out.
- 4) All switch actuators must be in 'OFF' position during soldering and cleaning processes.

BPA Series

Side Actuated DIP Switches

REPRESENTATIVE
TERMINAL

H

DIP



Features/Benefits

- Side actuated contacts
- Available in thru-hole or SMT models
- High pressure contact system does not require tape seal for washing
- RoHS compliant & compatible

Typical Applications

- Address switch for industrial controls
- Logic switching for computers and peripherals
- Function controlling for numerous applications

Specifications

SWITCH FUNCTION: 1 thru 10 and 12 position available.
 CONTACT RATING: 100 mA max. @ 5 V DC or 25 mA max.
 @ 24 V DC.
 MECHANICAL AND ELECTRICAL LIFE: 1,000 cycles min.
 @ 5 V DC 10mA.
 CONTACT RESISTANCE: 50 milliohms initial max.
 INSULATION RESISTANCE: 100 V DC 100 megohms min.
 DIELECTRIC WITHSTAND VOLTAGE: 300 V AC for 1 minute.
 STORAGE TEMPERATURE: -40°C to 85°C.
 OPERATING TEMPERATURE: -20°C to 85°C.
 OPERATING FORCE: 800 grams max.
 SOLDERABILITY: Flow solderable and washable
 (soldering: 260°C for 10 sec. max.)

PACKAGING: Switches supplied in rigid dispensing tubes in full-tube quantities only, this may affect order quantity. Numbers of switches per tube varies with model. Tape and reel packaging available for SMT options.

Materials

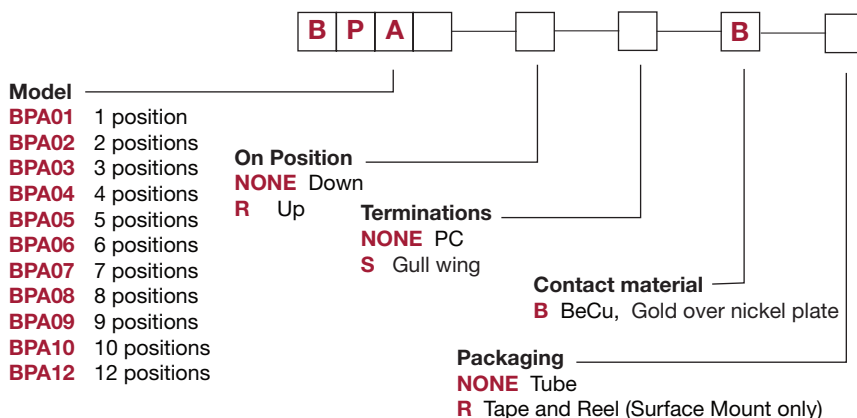
HOUSING: PPS, color black (UL94V-0).
 COVER: PPS, color black (UL94V-0).
 ACTUATOR: PA-6T (UL94V-0).
 CONTACTS: Beryllium Copper with Gold over Nickel plate.
 TERMINALS: Brass, Gold over Nickel plate.

Note: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

How To Order

The Build-A Switch concept allows you to mix and match options to create the switch you need. Below is a complete listing of options shown in catalog. To order, simply select desired option from each category and place in the appropriate box.

All switches supplied in "OFF" position.



Third Angle
Projection

DIP

A black integrated circuit (IC) with a rectangular shape and 8 pins. The top surface is labeled 'C&K' on the left and 'BPA08' on the right. The pins are numbered 1 through 8 along the top edge. The IC is shown from a perspective view, highlighting its three-dimensional structure and the gold-colored pins.

The diagram illustrates a SPST switch. On the left, there is a single input terminal labeled 'Schematic'. This terminal is connected to a switch mechanism represented by a vertical line with a small circle at the top and a small circle at the bottom. The top circle is connected to a horizontal line representing the 'throw'. The bottom circle is connected to a horizontal line representing the 'pole'. The output terminal is labeled 'SPST'.

Side Actuator – Surface Mount Terminals

A black integrated circuit (IC) component, labeled 'BP400' and 'G&K', with 14 pins. The component is shown from a perspective view, highlighting its rectangular shape and the arrangement of pins on one side. The pins are gold-colored and arranged in a single row. The top surface of the IC is black with white text: 'G&K' on the left, 'BP400' in the center, and 'No.' followed by a blank space on the right. The pins are numbered 1 through 14 from left to right.

**C&K**

www.ckswitches.com

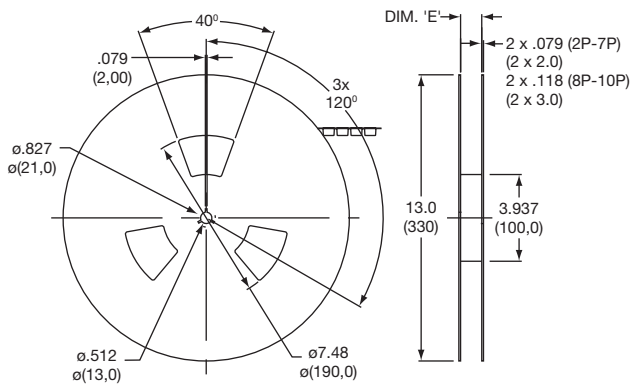
BPA Series

Side Actuated DIP Switches

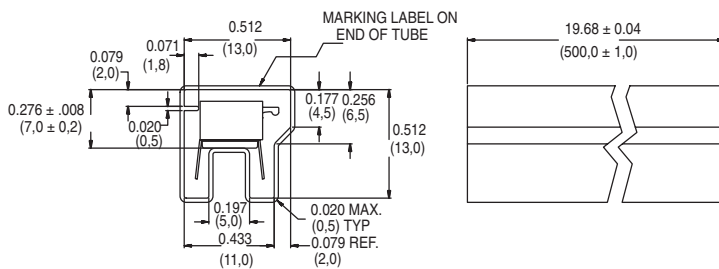
Tape & Reel Packaging – Surface Mount Options Only

QTY/ REEL	POLES	DIM. 'A'	DIM. 'B'	DIM. 'C'	DIM. 'D'	DIM. 'E'
500	1	.453 (11,5)	—	.945 (24,0)	.530 (13,45)	.960 (24,4)
500	2	.453 (11,5)	—	.945 (24,0)	.311 (7,9)	.960 (24,4)
500	3	.453 (11,5)	—	.945 (24,0)	.409 (10,4)	.960 (24,4)
500	4	.453 (11,5)	—	.945 (24,0)	.508 (12,9)	.960 (24,4)
500	5	.453 (11,5)	—	.945 (24,0)	.606 (15,4)	.960 (24,4)
500	6	.559 (14,2)	1.118 (28,4)	1.260 (32,0)	.709 (18,0)	1.275 (32,4)
500	7	.559 (14,2)	1.118 (28,4)	1.260 (32,0)	.807 (20,5)	1.275 (32,4)
500	8	.795 (20,2)	1.590 (40,4)	1.732 (44,0)	.894 (22,7)	1.748 (44,4)
500	9	.795 (20,2)	1.590 (40,4)	1.732 (44,0)	1.004 (25,5)	1.748 (44,4)
500	10	.795 (20,2)	1.590 (40,4)	1.732 (44,0)	1.106 (28,1)	1.748 (44,4)
500	12	.795 (20,2)	1.590 (40,4)	1.732 (44,0)	1.311 (33,3)	1.748 (44,4)

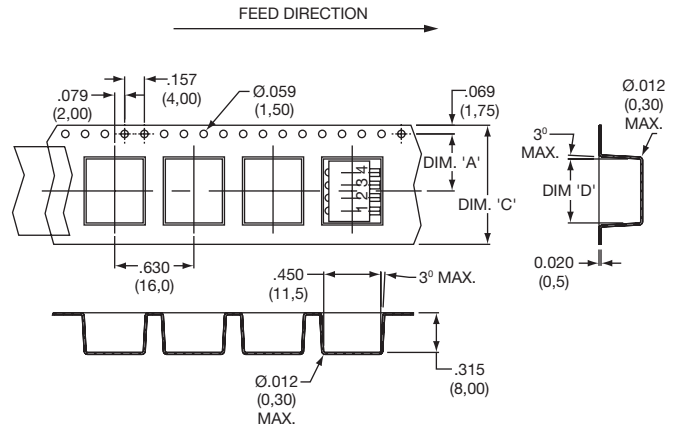
Note: For tape and reel packaging, add 'R' to end of part number.



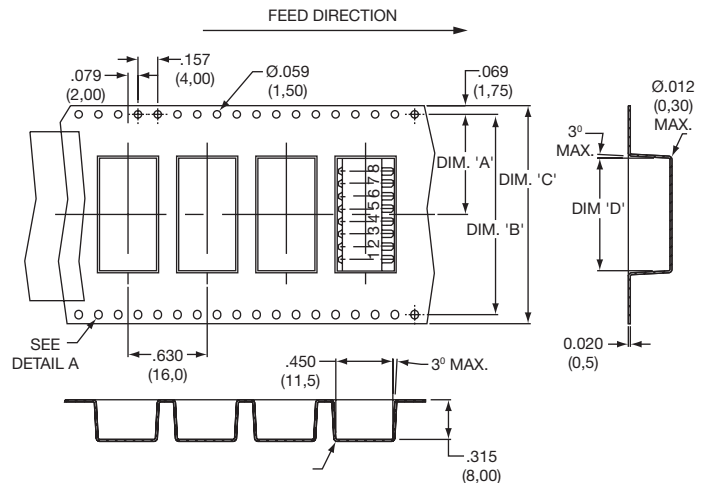
Tube Packaging



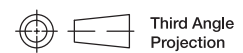
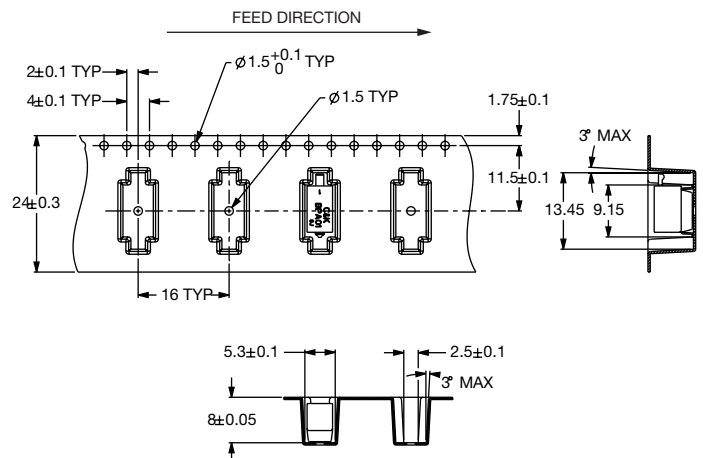
2, 3, 4 & 5 Positions



6, 7, 8, 9, 10 & 12 Positions



1 Position



Third Angle
Projection

Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

Features/Benefits

- **Bifurcated contact for increased electrical reliability**
- **Process sealed for surface mount soldering and washable processing**
- **RoHS compliant**

Typical Applications

- **Hand-held electronic devices**
- **Portable computer and electronic devices**
- **Instrumentation and controls**
- **Inverters**



Specifications

CONTACT RATING: 25 mA @ 24 V DC (switching) or
100 mA @ 50 V DC (steady state).

MECHANICAL AND ELECTRICAL LIFE: 200 cycles at rated loads.

CONTACT RESISTANCE: 100 mΩ max. initial. @ 2 V DC /10 mA

INSULATION RESISTANCE: 100 MΩ @ 100 V DC min.

DIELECTRIC STRENGTH: 300 V AC /minute

STORAGE TEMPERATURE: -40°C to 85°C.

OPERATING TEMPERATURE: -40°C to 85°C.

OPERATING FORCE: 4.9 N max.

SOLDERABILITY: Per MIL-STD-202F method 208D, or
EIA RS-186E method 9 (1 hour steam aging).

PACKAGING: 1,000 pieces tape & reel

Materials

CASE AND COVER: PPS, color black (UL94V-0).

ACTUATOR: LCP (UL94-0)

CONTACTS: Copper alloy with gold plate over nickel plate

TERMINALS (INSERT MOLDED):

Copper alloy gold flash over nickel plate

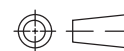
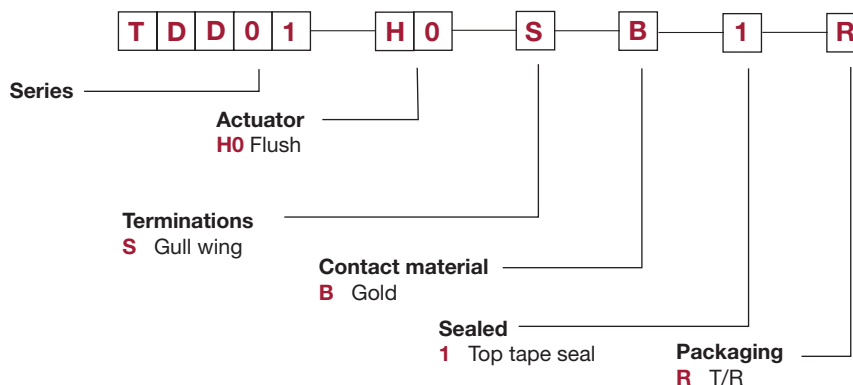
TAPE SEAL: Polyamide

Note: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center. For Tin Lead options consult customer service center.

How To Order

The Build-A Switch concept allows you to mix and match options to create the switch you need. Below is a complete listing of options shown in catalog. To order, simply select desired option from each category and place in the appropriate box.

All switches supplied in "OFF" position..

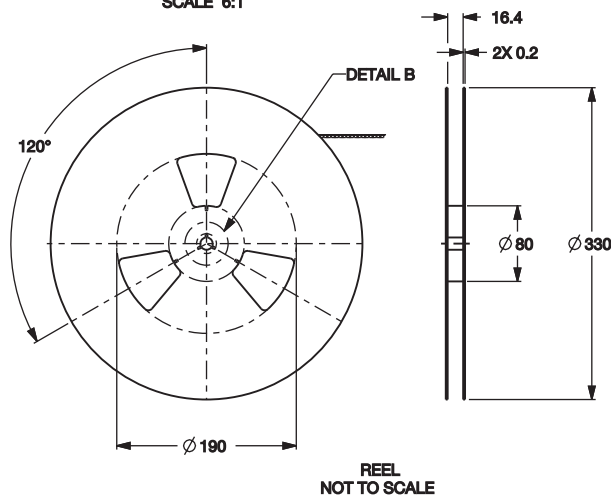
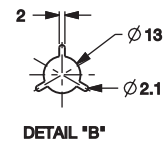
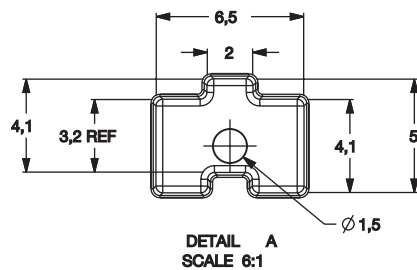
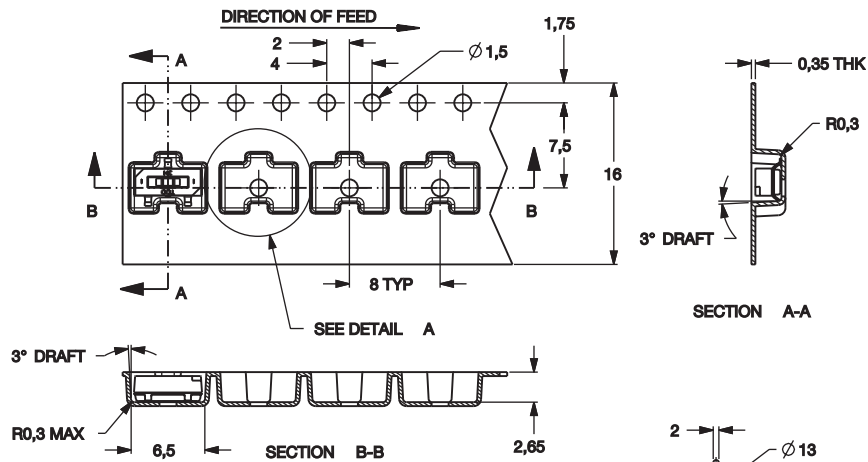
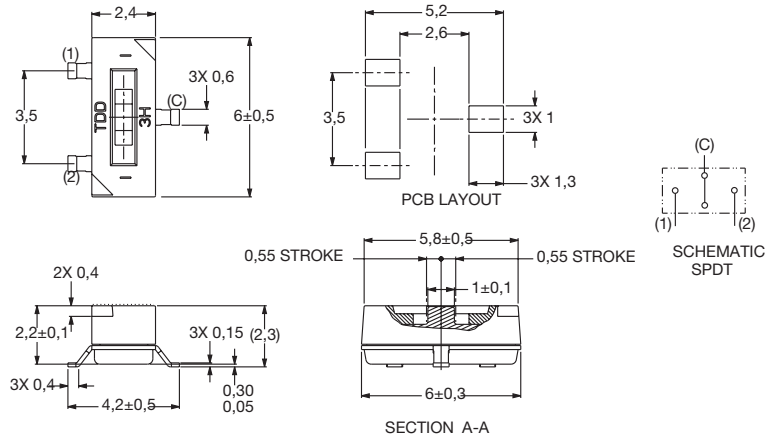


Third Angle
Projection

TDD Series Jumper Switch



DIP H



Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

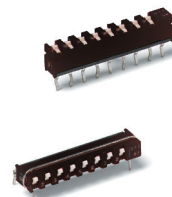
SPA Series Single In-line Package Switches

Features/Benefits

- **Thin Single In-line Packaging** saves PCB space
- **Retention feature** holds part to PCB prior to soldering
- **Available in vertical or right angle models**
- **High pressure contact system** does not require tape sealing
- **RoHS compliant**

Typical Applications

- **Address switch** for industrial controls
- **Logic switching** for computers and peripherals
- **Function controlling** for numerous applications



H
DIP

Specifications

CONTACT RATING:

Carry: 10 mA @ 5VDC

Switching: 0.1 mA @ 0.1m VDC min.

MECHANICAL AND ELECTRICAL LIFE: 1,000 cycles min.

CONTACT RESISTANCE: 50 mΩ max. @ 20 V DC 10mA.

INSULATION RESISTANCE: 100 MΩ min. @ 100 V DC.

DIELECTRIC STRENGTH: 1 minute @ 300 V AC.

CAPACITANCE: 5pF max. between adjacent terminals.

OPERATING TEMPERATURE: -40°C to 85°C.

STORAGE TEMPERATURE: -40°C to 85°C.

OPERATING FORCE: 5.9N max.

SOLDERABILITY: Dip & look solderability testing per C&K spec.

#448. Unplated edges of terminals permitted.

PACKAGING: Switches supplied in rigid dispensing tubes in full-tube quantities only, this may affect order quantity. Numbers of switches per tube varies with model.

Materials

BASE: PPS (UL94V-0).

COVER: PBT (UL94V-0).

ACTUATOR: 4/6 Nylon (UL 94V-0).

MOVABLE CONTACT: Beryllium copper alloy, gold over nickel plate.

FIXED CONTACT: Copper alloy, gold over nickel plate.

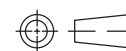
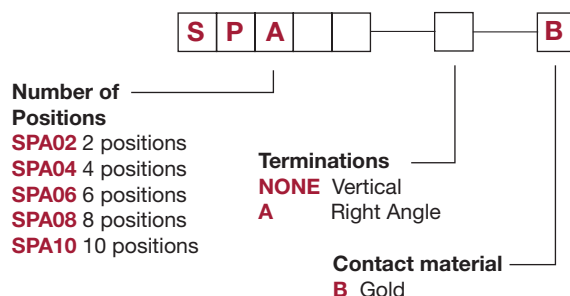
CLIP: Phosphor bronze wire. Phosphor bronze, Tin over nickel plate.

Note: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

How To Order

The Build-A Switch concept allows you to mix and match options to create the switch you need. Below is a complete listing of options shown in catalog. To order, simply select desired option from each category and place in the appropriate box.

All switches supplied in "OFF" position.

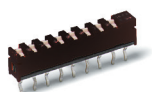


Third Angle
Projection

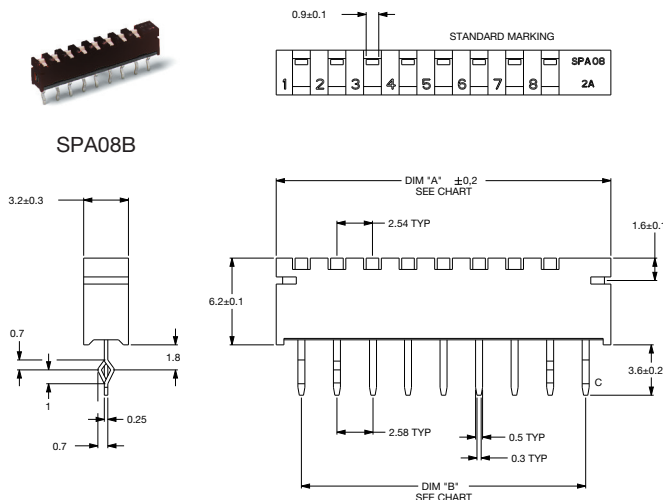
Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

SPA Series Single In-line Package Switches

Vertical



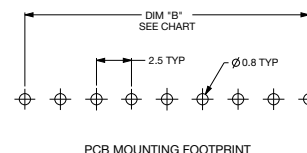
SPA08B



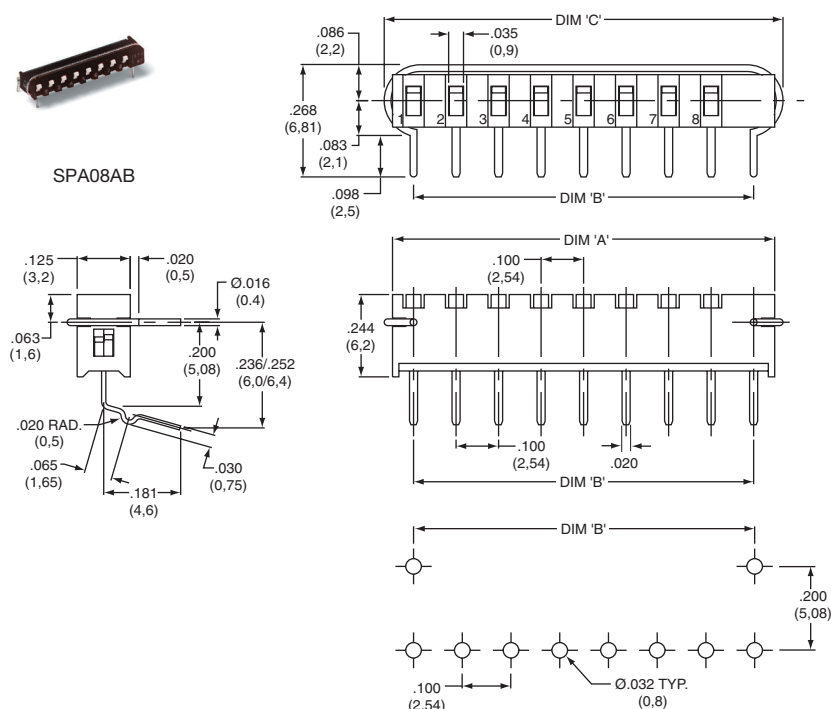
ROHS PART NUMBER	NO. POS.	DIM. 'A'	DIM. 'B'	QUANTITY PER TUBE
SPA02B	2	.342 (8,68)	.200 (5,08)	50
SPA04B	4	.542 (13,76)	.400 (10,16)	30
SPA06B	6	.742 (18,84)	.600 (15,24)	25
SPA08B	8	.942 (23,92)	.800 (20,32)	20
SPA10B	10	1.142 (29,00)	1.000 (25,40)	15

Schematic

SPST



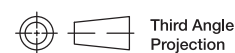
SPA08AB



ROHS PART #	NO. POS.	DIM. 'A'	DIM. 'B'	DIM. 'C'	QTY PER TUBE
SPA02AB	2	.342 (8,68)	.200 (5,08)	.339 (8,6)	50
SPA04AB	4	.542 (13,76)	.400 (10,16)	.540 (13,7)	30
SPA06AB	6	.742 (18,84)	.600 (15,24)	.736 (18,7)	25
SPA08AB	8	.942 (23,92)	.800 (20,32)	.937 (23,8)	20
SPA10AB	10	1.142 (29,00)	1.000 (25,40)	1.138 (28,9)	15

Schematic

SPST



RTE Series

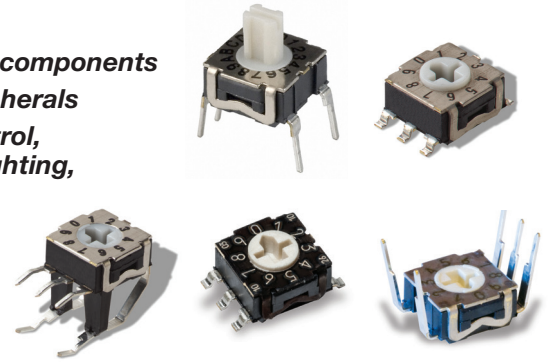
Low Profile Rotary DIP Switches

Features/Benefits

- Thru-hole & surface mount models
- Miniature size with robust metal cover in black or silver nickel finish
- 4, 10 & 16 positions
- Large choice of codings
- Vertical, right angle or reverse versions
- IP54
- RoHS compliant

Typical Applications

- Timers, automation components
- Computer and peripherals
- Alarms, access control, smoke detectors, lighting, home protection
- Instrumentation



H

DIP

Specifications

CONTACT RATING:

Gold: 100 mA max. 10μ A min. 30 V DC max. 20 mVDC min.

MECHANICAL LIFE: 20,000 indexations

CONTACT RESISTANCE: 100 mΩ max. initial;
150 mΩ after life

INSULATION RESISTANCE: 10¹⁰ Ω min. initial

DIELECTRIC STRENGTH: 300 Vrms 1 mn

OPERATING TEMPERATURE: -25°C to 85°C.

STORAGE TEMPERATURE: -55°C to 85°C.

PACKAGING:

Quantities

Terminations	Actuator	Tube	Box (in bulk)	Carrier tape	Standard Package
G	Flush, screwdriver slot			1250	1250 (1 reel)
	Shaft for button			750	750 (1 reel)
N	All versions	65			1950 (30 tubes)
V	All versions		150		1500 (10 boxes)
R	Flush, screwdriver slot	65			1950 (30 tubes)
	Shaft for button		150		1500 (10 boxes)

Materials

COVER: Brass, nickel plated (black or silver)

BASE: PPS

ACTUATOR: LCP

MOVABLE CONTACTS: Copper alloy, gold plated.

STATIONARY CONTACTS: Brass, gold plated.

TERMINALS: See page I-28 to I-29

O-RING: Silicone

SOLDERING PROCESS:

- Surface Mount Terminals: Infrared Reflow Soldering in accordance with IEC 61760-1.

- Non Reverse Thru-Hole Terminals: Lead free single or double wave soldering process according to C&K Procedure PS-LF-001

- Reverse Thru-Hole Terminals: Manual soldering: 3 sec / 350°C. Lead free single wave soldering process can be used but validation of the process must be done by customer

Note: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

How To Order

The Build-A Switch concept allows you to mix and match options to create the switch you need. Below is a complete listing of options shown in catalog. To order, simply select desired option from each category and place in the appropriate box.

NOTE: Some of the configurations may not be available or could require some development.

R

T

E

Number of Positions _____

RTE04 **ESD Protection and top plate**

RTE10 **0** Without ESD - standard plate

RTE16 **1** With ESD - standard plate ²

B Without ESD - black plate

Actuator

0 Flush, screwdriver slot

2 Shaft for button

Terminations

N Thru-hole

V Right angle

G Surface mount

R Reverse, thru-hole

Switch Function

0 Single pole ¹

1 BCD code

3 Gray Code (for RTE 10)

4 Hexadecimal code (for RTE 16)

7 Gray Code (for RTE 16)

Contact/Terminal Material

4 Gold 0.5 μm/ Lead free tin

7 Gold 1.0 μm/ Gold

¹ - Single pole function not available for RTE10/RTE16

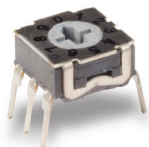
² - ESD protection available with "N" and "R" terminations only

First Angle Projection

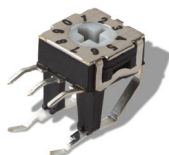
RTE Series Low Profile Rotary DIP Switches

SWITCHES WITH STANDARD OPTIONS

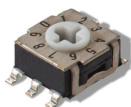
PC Mount-Terminal Option N



Right Angle Mount-Terminal Option V

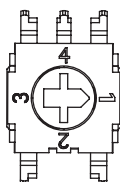


Surface Mount-Terminal Option G

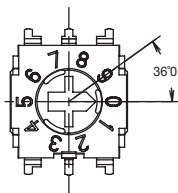


NUMBER OF POSITIONS

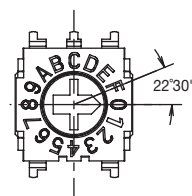
RTE04 4 POSITIONS



RTE10 10 POSITIONS

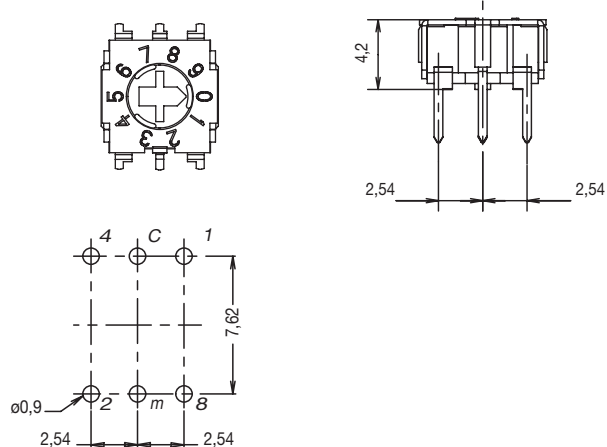
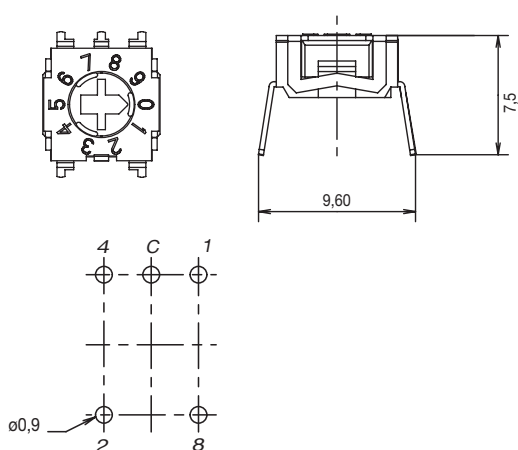


RTE16 16 POSITIONS

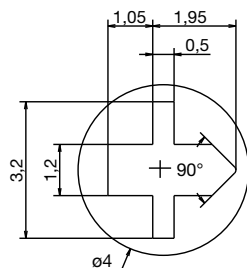


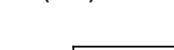
H
DIP

1 WITH

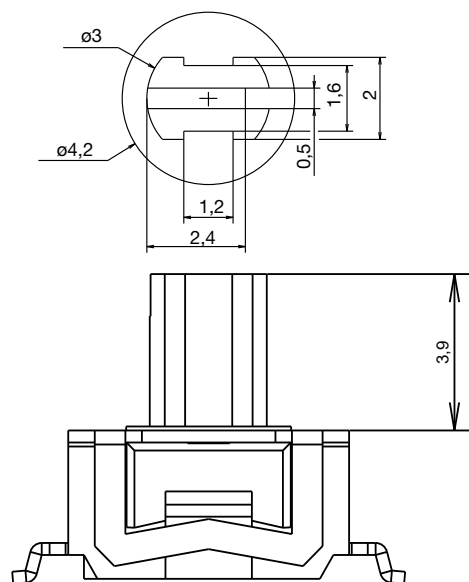


0 SCREWDRIVER SLOT



E1600Gx4 (SMT)


2 SHAFT FOR BUTTON



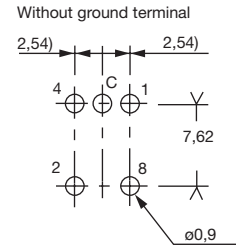
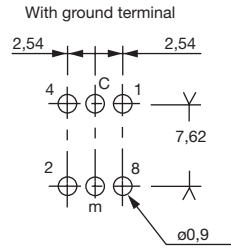
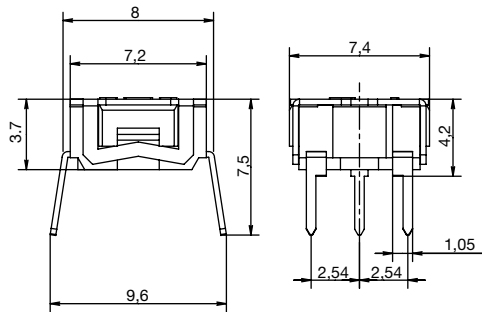
C&K

www.ckswitches.com

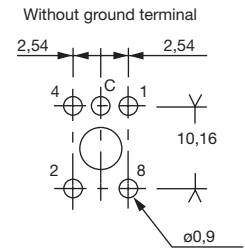
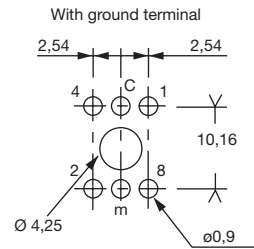
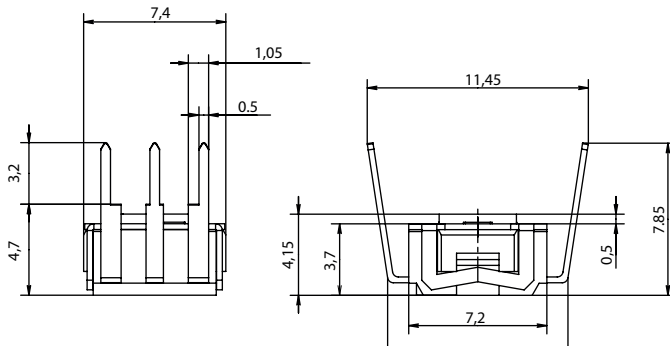
RTE Series Low Profile Rotary DIP Switches

TERMINATIONS

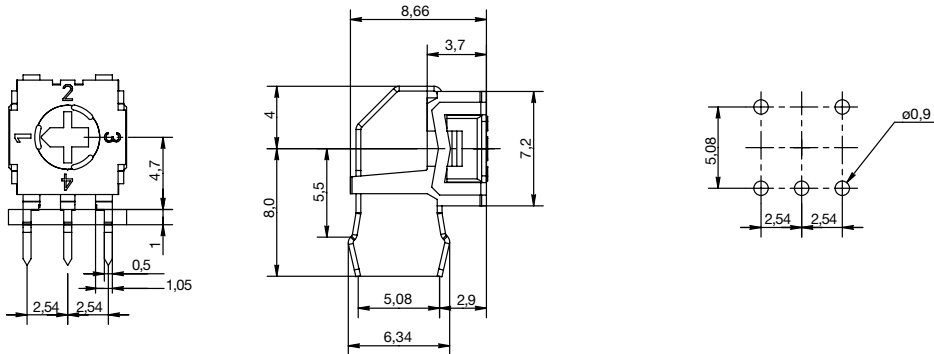
N THRU-HOLE



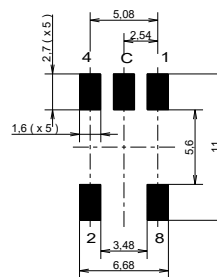
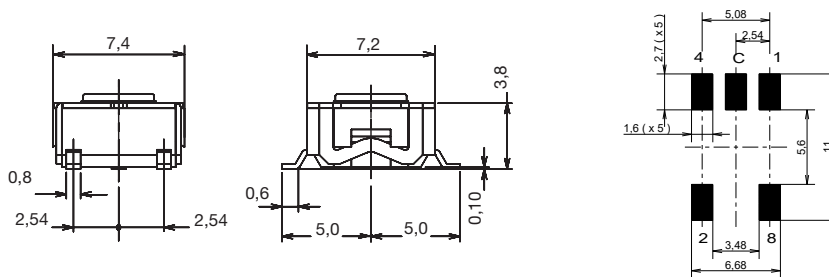
R REVERSE, THRU-HOLE



V RIGHT ANGLE, THRU-HOLE



G SURFACE MOUNT



PCB layout seen component side



Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

RTE Series Low Profile Rotary DIP Switches



H

DIP

SWITCH FUNCTION

0 SINGLE POLE

POS.	1	2	3	4
C	●	●	●	●
1	●			
2		●		
3			●	
4				●

1 BCD CODE

POS.	0	1	2	3	4	5	6	7	8	9
C	●	●	●	●	●	●	●	●	●	●
1		●		●		●		●		●
2			●	●			●	●		
4					●	●	●	●		
8									●	●

3 GRAY CODE (for RTE10 only)

POS.	0	1	2	3	4	5	6	7	8	9
C	●	●	●	●	●	●	●	●	●	●
1		●		●		●		●		●
2			●	●		●		●		
4					●	●	●	●	●	●
8									●	●

4 HEXADECIMAL CODE

POS.	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
C	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
1		●				●		●		●		●		●		●
2			●	●			●			●		●		●		●
4					●	●	●	●				●	●	●	●	●
8									●	●	●	●	●	●	●	●

7 GRAY CODE (for RTE04 only)

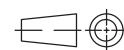
POS.	1	2	3	4
C	●	●	●	●
1	●			
2		●		
4			●	
8				●

(for RTE16 only)

POS.	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
C	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
1		●				●			●		●		●		●	
2			●	●	●		●				●	●	●	●		
4					●	●	●	●	●	●	●	●	●	●	●	●
8									●	●	●	●	●	●	●	●

CONTACT MATERIAL

OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING
4	Gold: 0.5 μ m	Lead Free Tin
7	Gold: 1 μ m	Gold



First Angle
Projection

Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

www.ckswitches.com

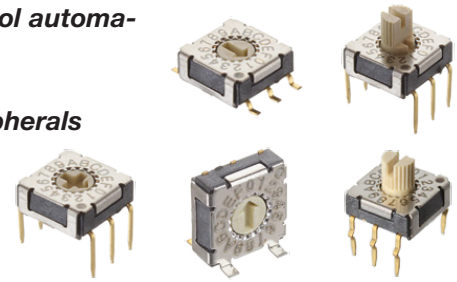
RTF Series 7.2mm x 7.2mm Low Profile Rotary DIP Switches

Features/Benefits

- New generation
- Most compact rotary DIP switch
- Thru-hole, Crimped, J-Bend, Angled and Surface Mount Models
- New designs with different actuators
- IP67
- RoHS compatible and compliant

Typical Applications

- Industrial and control automation
- Automotive
- Computer and peripherals
- Instrumentation
- Security devices



H

DIP

Specifications

CONTACT RATING: 100mA, DC 5V (switching)
100mA, DC 50V (non-switching)

MECHANICAL & ELECTRICAL LIFE: 10,000 cycles

INITIAL CONTACT RESISTANCE: 100 milliohms max.

INSULATION RESISTANCE: 100 megohms min.

OPERATING TEMPERATURE: -40°C to 85°C.

STORAGE TEMPERATURE: -40°C to 85°C.

OPERATING FORCE: 200 gf max.

SOLDER CONDITIONS:

- Iron soldering: C/K/S/A/J termination: 3s/350°C
- Wave soldering: C/K/A termination: 5s/280°C
- Reflow soldering: S/J termination: 10s/260°C

SOLDERABILITY: Dip and look solderability testing per C&K spec #448

PACKAGING: Switches are supplied in rigid dispensing tubes in full-tube quantities only, this may affect order quantities. Number of switches per tube varies with model. Tape and reel packing is only available with "S" and "J" type terminations.

Materials

COVER: Stainless steel

BASE: LCP

ACTUATOR: LCP

CONTACTS: Phosphor bronze, gold plated

SPRING & GUIDE PLATE: Stainless steel

TERMINALS: Brass, gold plated

O-RING: Silicon

How To Order

The Build-A Switch concept allows you to mix and match options to create the switch you need. Below is a complete listing of options shown in catalog. To order, simply select desired option from each category and place in the appropriate box.

R T F				
Number of positions 04 4 position 10 10 position 16 16 position	Coding R Real code C Complement code	Actuator 0 Arrow (Height = 0 mm) 1 Slotted Spindle (Height = 3 mm) 2 Cross (Height = 0 mm) 3 Arrow (Height = 3 mm)	Terminations C Thru-hole (Ter' 3 x 3) K Crimped (Ter' 3 x 3) S SMD Gull Wing A Angled Type J 'J' Bend	Packaging (None) Tube R Tape & Reel (only available for termination type S and J)



Third Angle
Projection

RTF Series

7.2mm x 7.2mm Low Profile Rotary DIP Switches

CODING

R Real Code

04 POSITION

		Real Code				
		C	1	2	4	8
04 POSITION	0					
	1					
	2					
	3					

10 POSITION

		Real Code				
		C	1	2	4	8
10 POSITION	0	•	•			
	1	•	•	•		
	2	•		•	•	
	3	•	•	•	•	
	4	•			•	•
	5	•	•		•	•
	6	•	•	•		
	7	•	•	•	•	
	8	•			•	•
	9	•	•		•	•

16 POSITION

		Real Code				
		C	1	2	4	8
16 POSITION	0	•	•			
	1	•	•	•		
	2	•		•	•	
	3	•	•	•	•	
	4	•			•	•
	5	•	•		•	•
	6	•	•	•		
	7	•	•	•	•	
	8	•			•	•
	9	•	•		•	•
	A	•	•	•		
	B	•	•	•	•	
	C	•			•	•
	D	•	•		•	•
	E	•	•	•		
	F	•	•	•	•	

C Complement Code

04 POSITION

		Complement Code				
		C	1	2	4	8
04 POSITION	0	●	●	●	●	●
	1	●		●	●	●
	2	●	●		●	●
	3	●			●	

10 POSITION

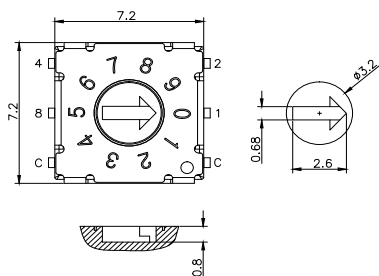
		Complement Code				
		C	1	2	4	8
10 POSITION	0	•	•	•	•	•
	1	•	•	•	•	•
	2	•	•	•	•	•
	3	•	•	•	•	•
	4	•	•	•	•	•
	5	•	•	•	•	•
	6	•	•	•	•	•
	7	•	•	•	•	•
	8	•	•	•	•	•
	9	•	•	•	•	•

16 POSITION

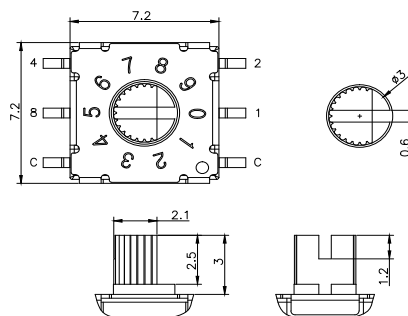
		Complement Code				
		C	1	2	4	8
16 POSITION	0	•	•	•	•	•
	1	•	•	•	•	•
	2	•	•	•	•	•
	3	•	•	•	•	•
	4	•	•	•	•	•
	5	•	•	•	•	•
	6	•	•	•	•	•
	7	•	•	•	•	•
	8	•	•	•	•	•
	9	•	•	•	•	•
	A	•	•	•	•	•
	B	•	•	•	•	•
	C	•	•	•	•	•
	D	•	•	•	•	•
	E	•	•	•	•	•
	F	•	•	•	•	•

ACTUATOR

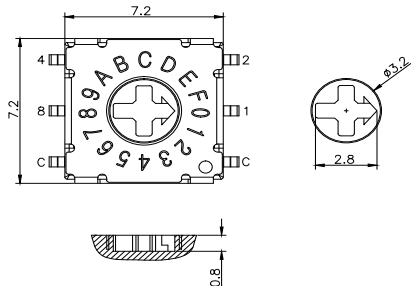
0 Arrow (Height = 0 mm)



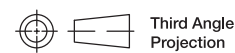
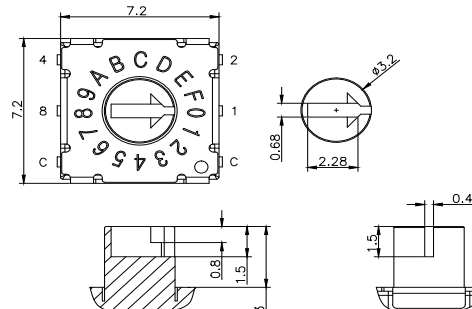
1 Slotted Spindle (Height = 3 mm)



2 Cross (Height = 0 mm)



3 Arrow (Height = 3 mm)

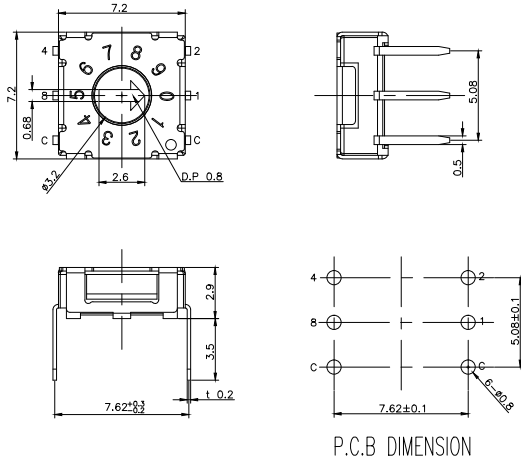


Third Angle
Projection

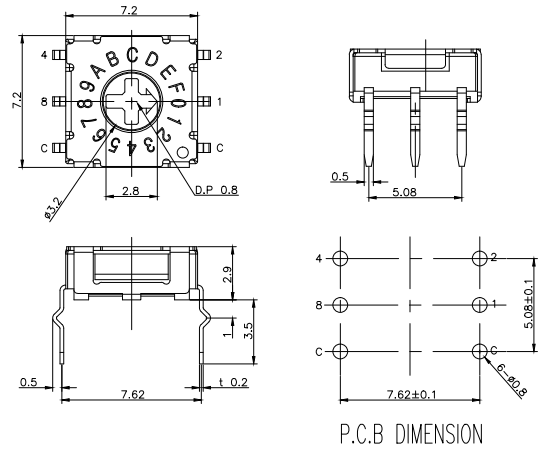
RTF Series 7.2mm x 7.2mm Low Profile Rotary DIP Switches

TERMINATIONS

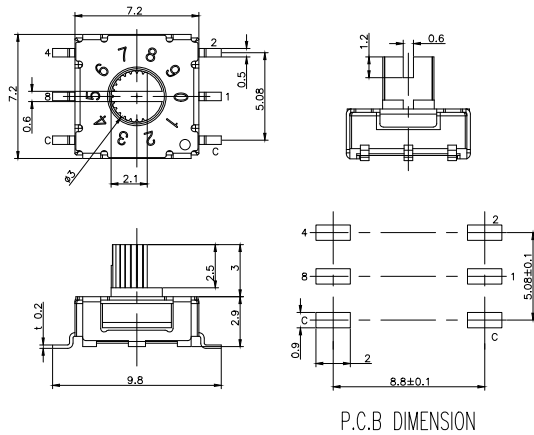
C Thru-hole



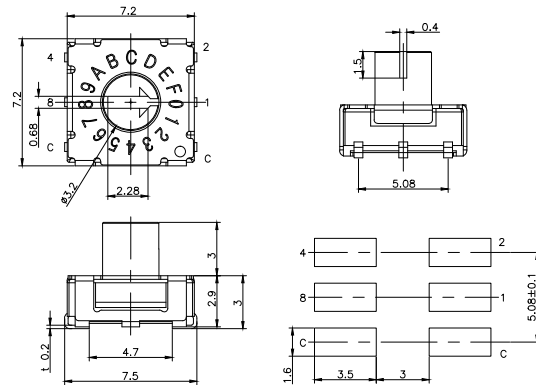
K Crimped (Ter' 3 x 3)



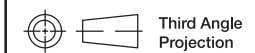
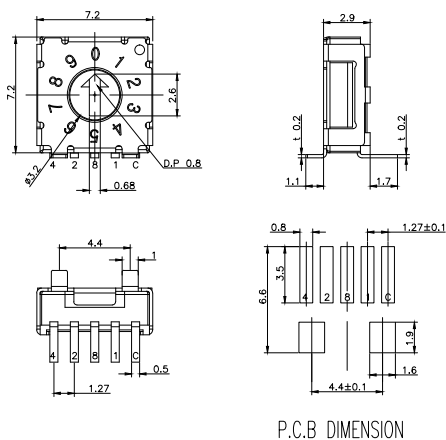
S SMD Gull Wing



J Bend SMD



A Angled Type



Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

RTF Series

7.2mm x 7.2mm Low Profile Rotary DIP Switches

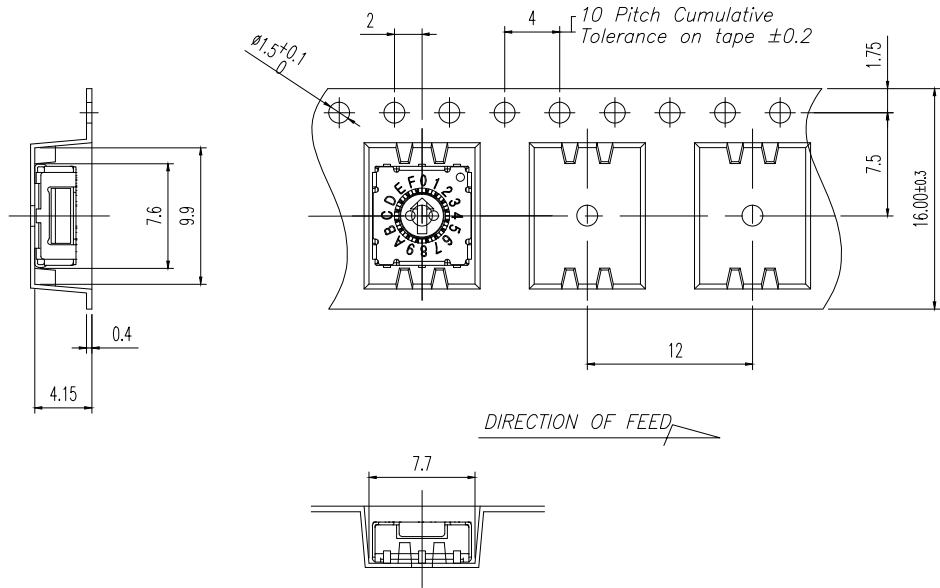
TAPE & REEL



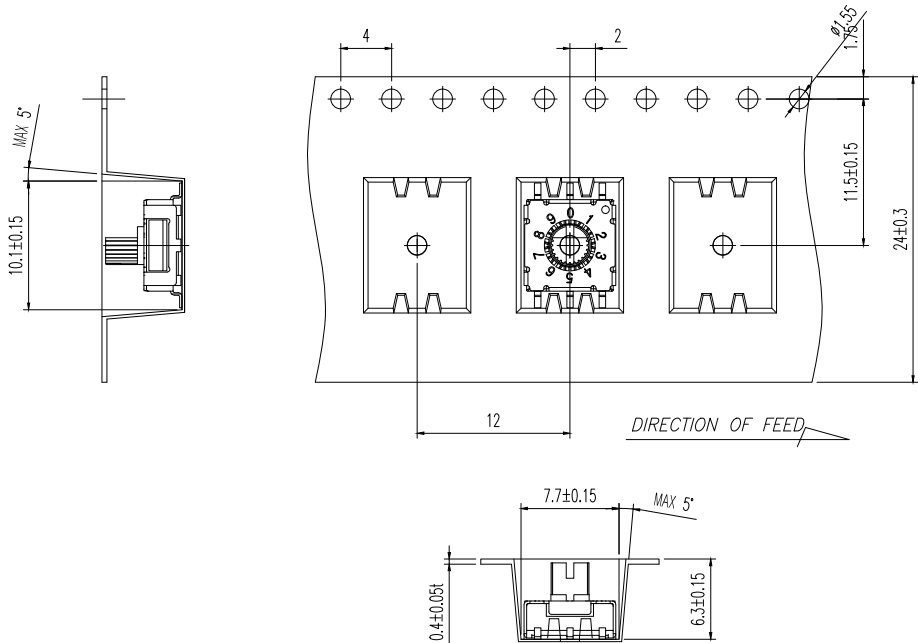
H

DIP

The tape and reel is applicable for
Actuator 0 or 2 with
Termination S or J
1300 pcs/reel



The tape and reel is applicable for
Actuator 1 or 3 with
Termination S or J
800 pcs/reel



Third Angle
Projection

Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

CD Series 8mm DIP Coded Rotary Switches

Features/Benefits

- **Process sealed – withstands soldering and cleaning**
- **Thru-hole and surface mount models**
- **Compact size saves space – 36% smaller than traditional 10mm DIP**
- **Crisp, positive detent ensures actuation**
- **RoHS compliant**
- **IP65**

Typical Applications

- **Address switching applications**
- **Data storage devices**
- **Computer and peripherals**
- **Instrumentation**



H
DIP

Specifications

CONTACT RATING: 0.4 VA max. @ 20 V AC or V DC max.

MECHANICAL AND ELECTRICAL LIFE:

CD10 & CD16: 20,000 actuations.

CD08: 12,000 actuations.

CONTACT RESISTANCE: 50 milliohms max. initial.

INSULATION RESISTANCE: 100 megohms min.
@ 250 V AC min.

DIELECTRIC STRENGTH: 250 V RMS min. @ sea level.

OPERATING TEMPERATURE: -25°C to 85°C.

STORAGE TEMPERATURE: -40°C to 85°C.

SOLDERABILITY: Per MIL-STD-202F method 208D or EIA
RS-186E, method 9 (1 hour steam aging).

PACKAGING: Switches supplied in rigid tubes in full-tube quantities only: this may affect order quantity. Tube quantity is 60 pieces per tube. Surface mount switches available in tape & reel packaging per EIA 481A, 800 per reel, surface mount with "M0" actuator only.

Materials

COVER: PPS (UL94V-0), Color; Black.

BASE: PPS (UL94V-0), Color; Black

ACTUATOR: LCP (UL 94V-0), Color White (CDXXR)
Color Black (CDXXC)

Note: internal o-ring seal standard with all actuators.

MOVABLE CONTACTS: Copper alloy with gold plate over nickel plate.

STATIONARY CONTACTS: Copper alloy with gold plate over nickel plate.

TERMINALS: Copper alloy with gold plate over nickel plate.

Note: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

How To Order

The Build-A Switch concept allows you to mix and match options to create the switch you need. Below is a complete listing of options shown in catalog. To order, simply select desired option from each category and place in the appropriate box.

Switch Function CD08R 8 position, BCD CD10R 10 position, BCD CD10C 10 position, BCD complement CD16R 16 position, Hexadecimal CD16C 16 position, Hexadecimal complement	Actuator M0 Flush, screwdriver slot	Terminations A Right Angle, PC Thru-hole C PC Thru-hole S Gull wing	Contact/Terminal Material B Gold/Gold	Packaging NONE Tube R Tape & Reel (SMT, M0 actuator only)
---	---	---	---	---



Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change



12 Nov 20

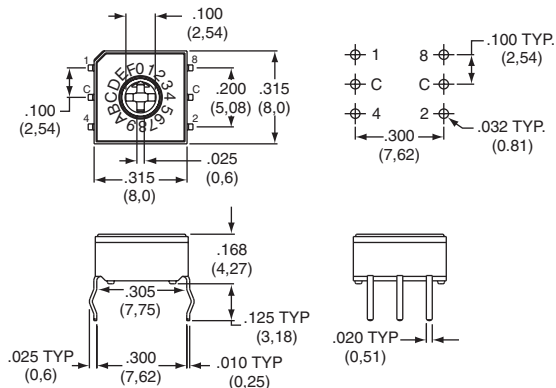
CD Series 8mm DIP Coded Rotary Switches

SWITCHES WITH STANDARD OPTIONS

PC Mount



CD16RM0CB

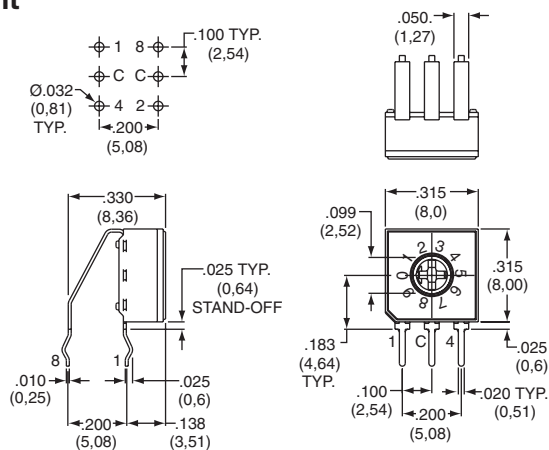


PART NUMBER	NO. POS.	QUANTITY PER TUBE
CD08RM0CB	8	60
CD10RM0CB	10	60
CD10CM0CB	10	60
CD16RM0CB	16	60
CD16CM0CB	16	60

Right Angle Mount



CD10RM0AB

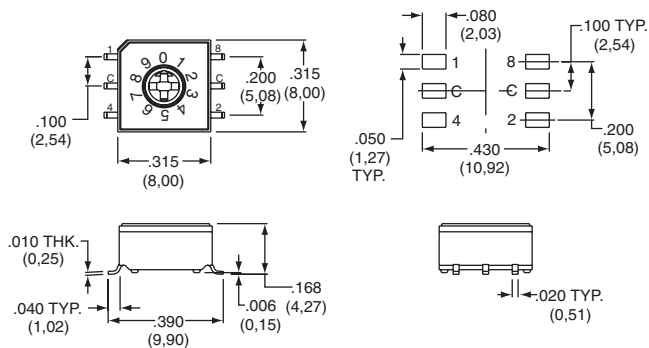


PART NUMBER	NO. POS.	QUANTITY PER TUBE
CD08RM0AB	8	60
CD10RM0AB	10	60
CD10CM0AB	10	60
CD16RM0AB	16	60
CD16CM0AB	16	60

Surface Mount

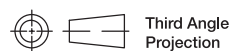


CD10RM0SB



PART NUMBER	NO. POS.	QUANTITY PER TUBE
CD08RM0SB	8	60
CD10RM0SB	10	60
CD10CM0SB	10	60
CD16RM0SB	16	60
CD16CM0SB	16	60

Note: For tape and reel packaging, add 'R' to end of part number.



Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

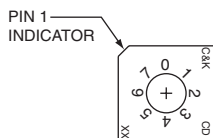
CD Series 8mm DIP Coded Rotary Switches

SWITCH FUNCTION



CD08R 8 POSITION, BCD
ACTUATOR COLOR: WHITE

POS.	0	1	2	3	4	5	6	7
C	●	●	●	●	●	●	●	●
1		●						
2			●	●			●	●
4					●	●	●	●
8								



Switches ship and to be solder processed in position "0"

CD10R 10 POSITION, BCD
ACTUATOR COLOR: WHITE

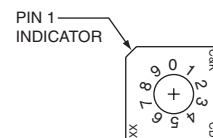
POS.	0	1	2	3	4	5	6	7	8	9
C	●	●	●	●	●	●	●	●	●	●
1		●		●		●		●		●
2			●	●			●	●		
4					●	●	●	●		
8									●	●

Switches ship and to be solder processed in position "0"

CD10C 10 POSITION, BCD COMPLEMENT
ACTUATOR COLOR: BLACK

POS.	0	1	2	3	4	5	6	7	8	9
C	●	●	●	●	●	●	●	●	●	●
1	●		●		●		●		●	
2	●	●			●	●			●	●
4	●			●	●				●	
8	●	●	●	●	●	●	●	●	●	

Switches ship and to be solder processed in position "7"



CD16R 16 POSITION, HEXADECIMAL
ACTUATOR COLOR: WHITE

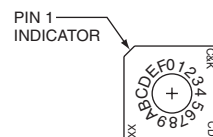
POS.	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
C	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
1		●		●		●		●		●		●		●		●
2			●	●			●	●			●	●			●	●
4					●	●			●	●			●	●		
8									●	●	●	●	●	●	●	●

Switches ship and to be solder processed in position "0"

CD16C 16 POSITION, HEXADECIMAL COMPLEMENT
ACTUATOR COLOR: BLACK

POS.	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
C	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
1	●		●		●		●		●		●		●		●	
2	●	●			●	●			●	●			●	●		
4	●			●	●				●	●			●	●		
8	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

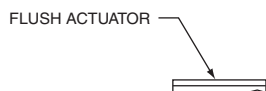
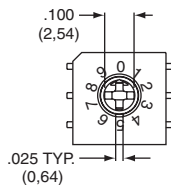
Switches ship and to be solder processed in position "F"



ACTUATOR



M0 (STD.) FLUSH WITH SCREWDRIVER SLOT



NOTE: Designed for #0 Phillips screwdriver.



Third Angle
Projection



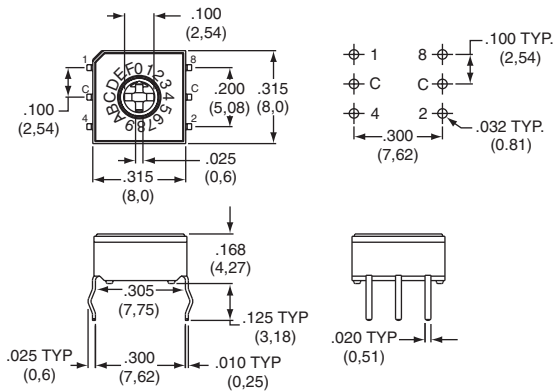
12 Nov 20

CD Series 8mm DIP Coded Rotary Switches

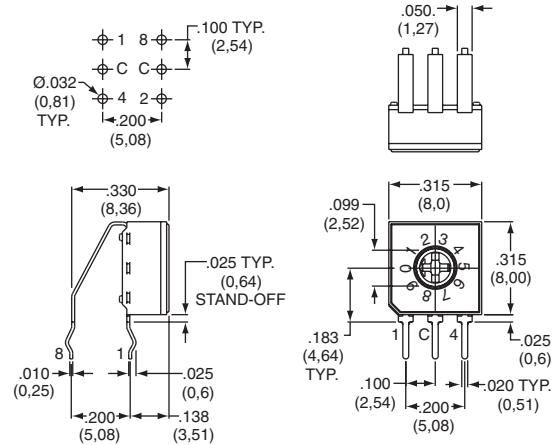
TERMINATIONS



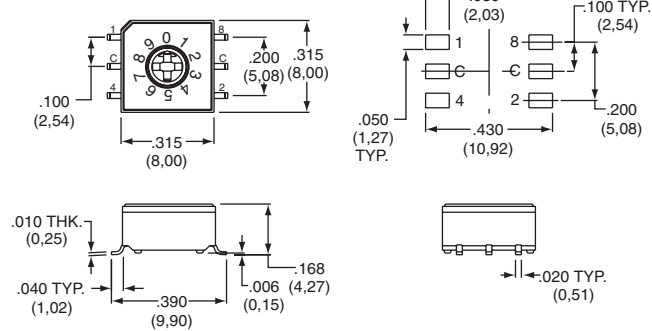
C PC, THRU-HOLE



A RIGHT ANGLE, PC THRU-HOLE



S SURFACE MOUNT



CONTACT MATERIAL

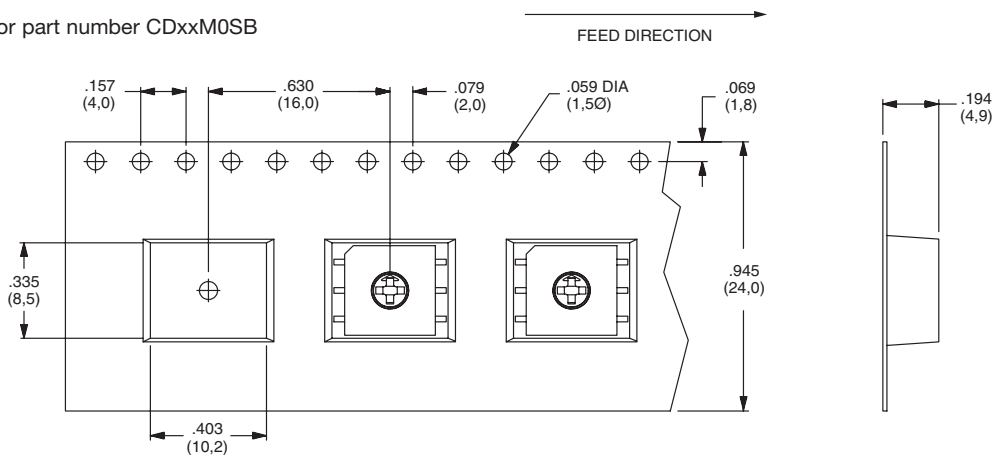


OPTION CODE	RoHS COMPLIANT*	RoHS COMPATIBLE*	CONTACT MATERIAL	TERMINAL PLATING	RATING	
B	YES	YES	GOLD	GOLD	LOW LEVEL/DRY CIRCUIT	0.4 VC MAX. @ 20 V AC or DC MAX.

* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

TAPE & REEL

For part number CDxxM0SB



Reel Information

Outside diameter	13.00 (333,0)
Pilot hole	.512 (13,0)



Third Angle
Projection

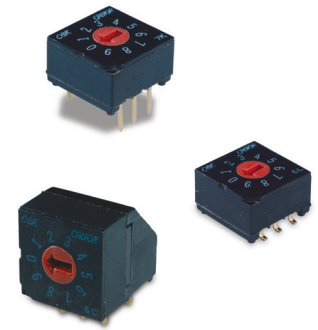
CRD Series 10mm DIP Coded Rotary Switches

Features/Benefits

- **Process sealed – withstands soldering and cleaning**
- **Thru-hole and surface mount models**
- **Crisp, positive detent ensures actuation**
- **Computer and peripherals**
- **RoHS compliant**
- **IP65**

Typical Applications

- **Address switching applications**
- **Data storage devices**
- **Computer and peripherals**
- **Instrumentation**



H

DIP

Specifications

CONTACT RATING: 0.4 V AC, DC 20 V max.

ELECTRICAL LIFE: 20,000 steps min. @ 5 V DC 10 mA.

MECHANICAL LIFE: 30,000 steps min.

CONTACT RESISTANCE: 100 milliohms max. initial
@ 2 V DC 10 mA.

INSULATION RESISTANCE: 1000 megohms min. @ 100 V DC

DIELECTRIC STRENGTH: 300 V AC for 1 minute.

OPERATING TEMPERATURE: -20°C to 85°C.

STORAGE TEMPERATURE: -40°C to 85°C.

OPERATING FORCE: 1000 grams max.

PACKAGING: Switches supplied in anti-static tubes in full quantities only. This may affect order quantity. Surface mount models with MO actuators available in tape and reel, 500 pieces per reel.

Materials

COVER: PPS (black)

HOUSING: PPS (black)

ACTUATOR: PA 6T M0 actuator option; PBT L1 and W1 actuator option.

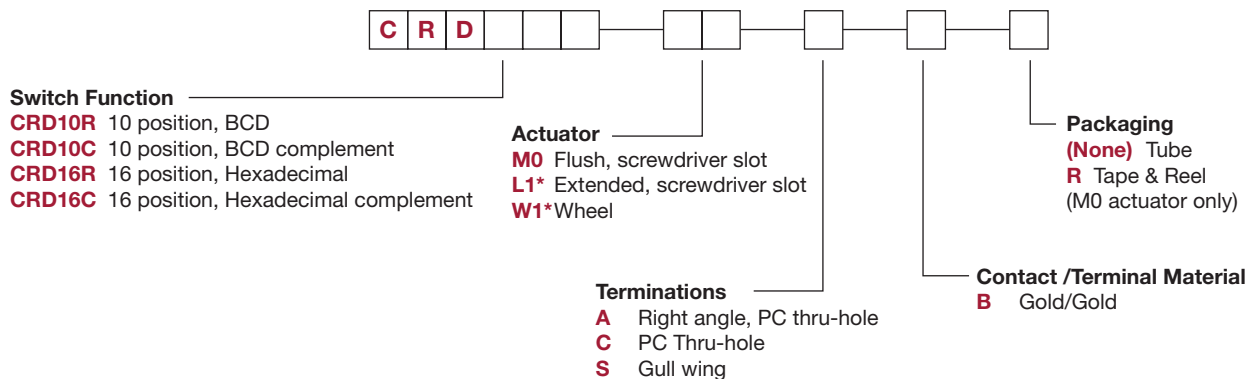
CONTACTS: Beryllium Copper with Gold over Nickel plate

TERMINALS: Brass with Gold Nickel plate.

Note: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

How To Order

The Build-A Switch concept allows you to mix and match options to create the switch you need. Below is a complete listing of options shown in catalog. To order, simply select desired option from each category and place in the appropriate box.

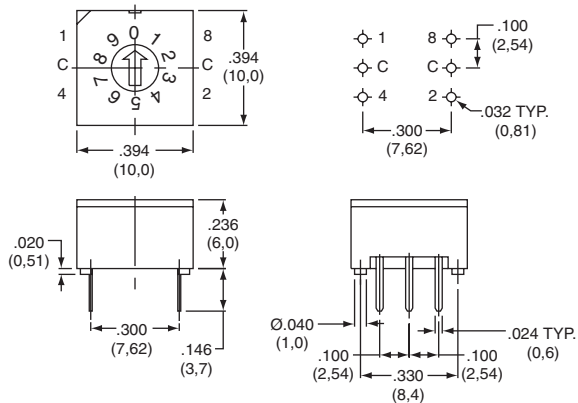
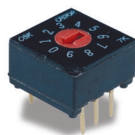


* Note - L1 and W1 actuators are not available in termination "S"

CRD Series 10mm DIP Coded Rotary Switches

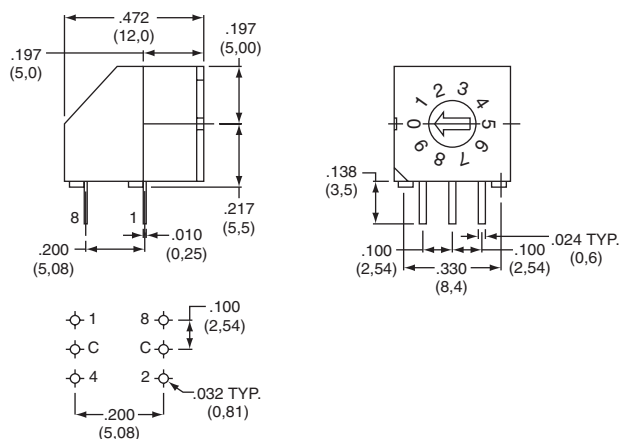
SWITCHES WITH STANDARD OPTIONS

PC Mount



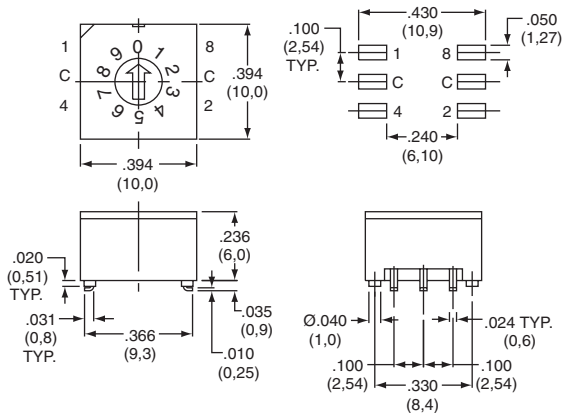
PART NUMBER	NO. POS.	QUANTITY PER TUBE
CRD10RM0CB	10	45
CRD16RM0CB	16	45

Right Angle Mount

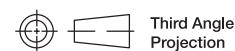


PART NUMBER	NO. POS.	QUANTITY PER TUBE
CRD10RM0AB	10	45
CRD16RM0AB	16	45

Surface Mount



PART NUMBER	NO. POS.	QUANTITY PER TUBE
CRD10RM0SB	10	45
CRD16RM0SB	16	45



Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

CRD Series 10mm DIP Coded Rotary Switches

SWITCH FUNCTION



H

DIP

CRD10R

10 POSITION, BCD
ACTUATOR COLOR: RED

POS.	0	1	2	3	4	5	6	7	8	9
C	●	●	●	●	●	●	●	●	●	●
1		●				●		●		●
2			●				●		●	
4				●	●	●	●			
8								●	●	

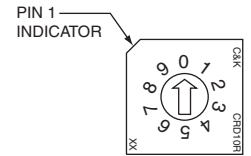
Switches ship and to be solder processed in position "0"

CRD10C

10 POSITION, BCD COMPLEMENT
ACTUATOR COLOR: ORANGE

POS.	0	1	2	3	4	5	6	7	8	9
C	●	●	●	●	●	●	●	●	●	●
1	●				●		●		●	
2	●		●			●		●		●
4	●	●	●	●					●	●
8	●	●	●	●	●	●	●	●		

Switches ship and to be solder processed in position "7"



CRD16R

16 POSITION, HEXADECIMAL
ACTUATOR COLOR: BLACK

POS.	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
C	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
1		●		●		●		●		●		●		●		●
2			●		●		●		●		●		●		●	
4				●	●	●	●				●	●	●	●		
8								●	●	●	●	●	●	●	●	●

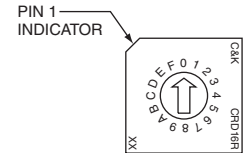
Switches ship and to be solder processed in position "0"

CRD16C

16 POSITION, HEXADECIMAL COMPLEMENT
ACTUATOR COLOR: WHITE

POS.	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
C	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
1	●		●		●		●		●		●		●		●	
2	●		●		●		●		●		●		●		●	
4	●	●	●	●				●	●	●	●					
8	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

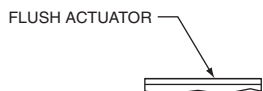
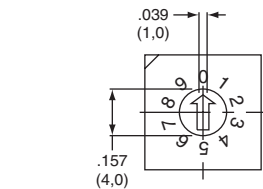
Switches ship and to be solder processed in position "F"



ACTUATOR

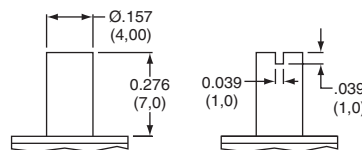
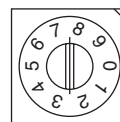


(STD.) FLUSH WITH SCREWDRIVER SLOT



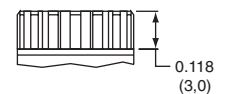
L1*

EXTENDED WITH SCREWDRIVER SLOT



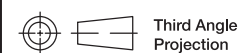
W1*

WHEEL



NOTE: Designed for #0 Phillips screwdriver.

* L1 and W1 actuators are not available in termination "S"



Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change



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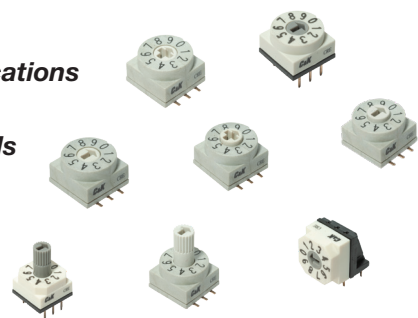
DIP H

Features/Benefits

- Process sealed – withstands soldering and cleaning
- Thru-hole and surface mount models
- New designs with different actuators
- RoHS compatible and compliant
- New generation price competitive
- IP65

Typical Applications

- Address switching applications
- Data storage devices
- Computer and peripherals
- Instrumentation

H
DIP**Specifications**

CONTACT RATING: 42 V DC 150mA (switching), 200mA (non-switching)

MECHANICAL & ELECTRICAL LIFE: 10,000 cycles

INITIAL CONTACT RESISTANCE: 200 mΩ max.

INSULATION RESISTANCE: 100 MΩ min.

OPERATING TEMPERATURE: -20°C to 85°C.

STORAGE TEMPERATURE: -40°C to 85°C.

OPERATING FORCE: 700 gf max.

SOLDER CONDITIONS:

- Straight and right-angle types: Iron soldering 2s/340°C, wave soldering 5s/280°C
- Through-hole and SMT types: Iron soldering 2s/340°C, wave soldering: 5s/280°C, reflow soldering 10s/260°C

SOLDERABILITY: Dip and look solderability testing per C&K spec #448

PACKAGING: Switches are supplied in rigid dispensing tubes in full-tube quantities only, this may affect order quantities. Number of switches per tube varies with model. Tape and reel packing also available with exception for the right-angle "A" type terminations.

Materials

COVER:

- Straight and right-angle types: Nylon#66 (G45%)
- Through-hole and SMT types: LCP (G30%)

BASE:

- Straight and right-angle types: Nylon#66 (G45%)
- Through-hole and SMT types: LCP (G30%)

ACTUATOR:

- Straight and right-angle types: Poly Acetal
- Through-hole and SMT types: Nylon#66 (G45%)

CONTACTS: Brass with Gold nickel plating

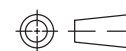
TERMINALS: Brass with Gold nickel plating

How To Order

The Build-A Switch concept allows you to mix and match options to create the switch you need. Below is a complete listing of options shown in catalog. To order, simply select desired option from each category and place in the appropriate box.

C R E			
Number of positions 04 4 position 06 6 position 08 8 position 10 10 position 16 16 position		Packaging (None) Tube R Tape & Reel Available in Actuator-Termination combination: M0¹-S⁵ M1²-S⁵ P0³-S⁵ P1⁴-S⁵	
Coding R Real or BCD code C Complement code			
Shape of surface OT Octagon Type RD Round Type		Terminations A Right Angle Thru-hole Available in: Actuator M0¹ Actuator M1² C PC Thru-hole S⁵ Gull wing	
Actuator M0¹ Flush, Screw type "->" [Slot Screw Drive Type] M1² Flush, Screw type "+" [Cross Screw Drive Type] L0 Extended, Screw type "->" [Slot Screw Drive Type] P0³ Protrusion, Screw type "->" [Slot Screw Drive Type] P1⁴ Protrusion, Screw type "+" [Cross Screw Drive Type]			

Remarks in Annotation

Third Angle
Projection

CRE Series 10mm DIP Coded Rotary Switches

NEW

CODING

R Real Code

04 POSITION

	C	1	2	4	8
04 POSITION					
0	•				
1	•	•			
2	•	•	•		
3	•	•	•	•	

06 POSITION

	C	1	2	4	8
06 POSITION					
0	•				
1	•	•			
2	•	•	•		
3	•	•	•	•	
4	•	•	•	•	•
5	•	•	•	•	•

08 POSITION

	C	1	2	4	8
08 POSITION					
0	•				
1	•	•			
2	•	•	•		
3	•	•	•	•	
4	•	•	•	•	•
5	•	•	•	•	•
6	•	•	•	•	•
7	•	•	•	•	•

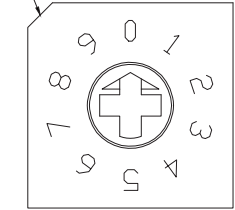
10 POSITION

	C	1	2	4	8
10 POSITION					
0	•				
1	•	•			
2	•	•	•		
3	•	•	•	•	
4	•	•	•	•	•
5	•	•	•	•	•
6	•	•	•	•	•
7	•	•	•	•	•
8	•	•	•	•	•
9	•	•	•	•	•

16 POSITION

	C	1	2	4	8
16 POSITION					
0	•				
1	•	•			
2	•	•	•		
3	•	•	•	•	
4	•	•	•	•	•
5	•	•	•	•	•
6	•	•	•	•	•
7	•	•	•	•	•
8	•	•	•	•	•
9	•	•	•	•	•
A	•	•	•	•	•
B	•	•	•	•	•
C	•	•	•	•	•
D	•	•	•	•	•
E	•	•	•	•	•
F	•	•	•	•	•

PIN 1
INDICATOR



C Complement Code

04 POSITION

	C	1	2	4	8
04 POSITION					
0	•	•	•	•	•
1	•	•	•	•	•
2	•	•	•	•	•
3	•	•	•	•	•

06 POSITION

	C	1	2	4	8
06 POSITION					
0	•	•	•	•	•
1	•	•	•	•	•
2	•	•	•	•	•
3	•	•	•	•	•
4	•	•	•	•	•
5	•	•	•	•	•

08 POSITION

	C	1	2	4	8
08 POSITION					
0	•	•	•	•	•
1	•	•	•	•	•
2	•	•	•	•	•
3	•	•	•	•	•
4	•	•	•	•	•
5	•	•	•	•	•
6	•	•	•	•	•
7	•	•	•	•	•

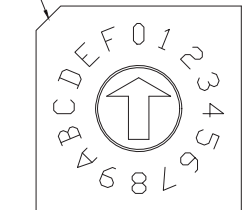
10 POSITION

	C	1	2	4	8
10 POSITION					
0	•	•	•	•	•
1	•	•	•	•	•
2	•	•	•	•	•
3	•	•	•	•	•
4	•	•	•	•	•
5	•	•	•	•	•
6	•	•	•	•	•
7	•	•	•	•	•
8	•	•	•	•	•
9	•	•	•	•	•

16 POSITION

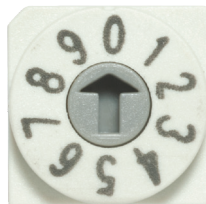
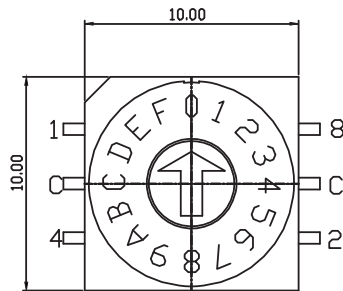
	C	1	2	4	8
16 POSITION					
0	•	•	•	•	•
1	•	•	•	•	•
2	•	•	•	•	•
3	•	•	•	•	•
4	•	•	•	•	•
5	•	•	•	•	•
6	•	•	•	•	•
7	•	•	•	•	•
8	•	•	•	•	•
9	•	•	•	•	•
A	•	•	•	•	•
B	•	•	•	•	•
C	•	•	•	•	•
D	•	•	•	•	•
E	•	•	•	•	•
F	•	•	•	•	•

PIN 1
INDICATOR

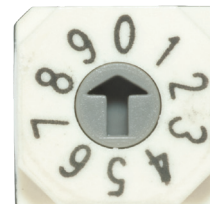
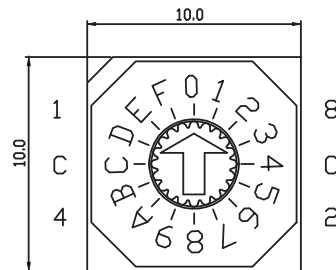


SHAPE OF SURFACE

RD Round Type



OT Octagon Type



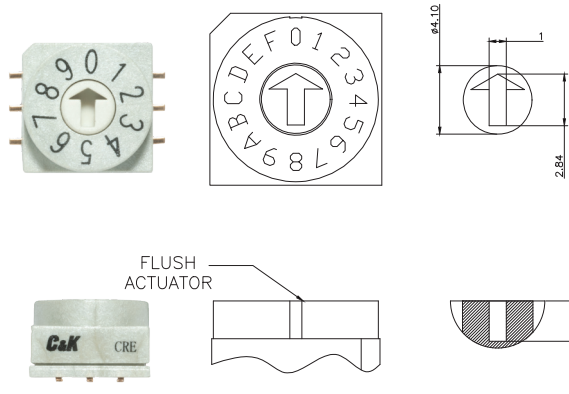
Third Angle
Projection

NEW

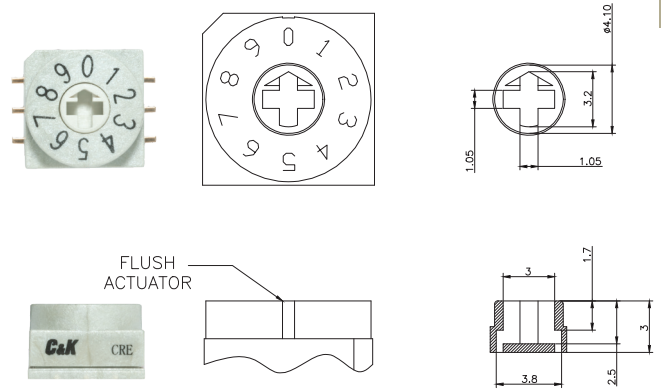
CRE Series 10mm DIP Coded Rotary Switches

ACTUATOR

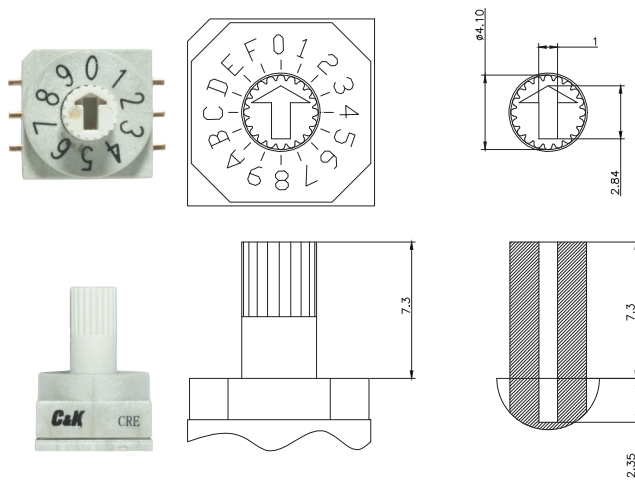
M0 Flush, Screw type “->”



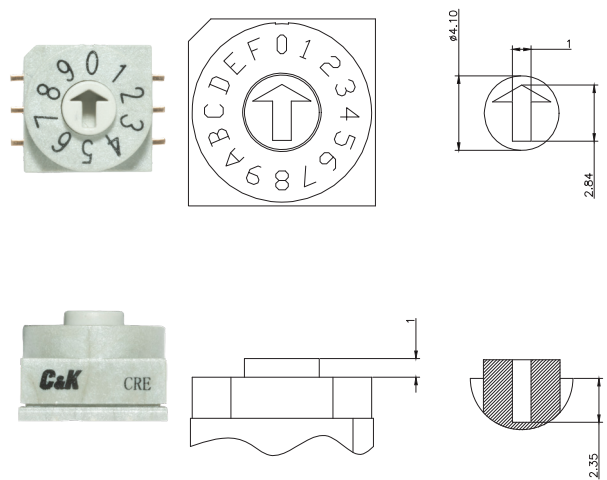
M1 Flush, Screw type “+”



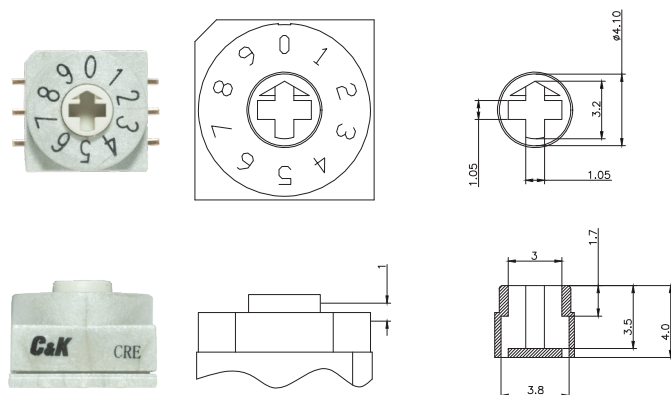
L0 Extended, Screw type “->”



P0 Protrusion, Screw type “->”



P1 Protrusion, Screw type “+”



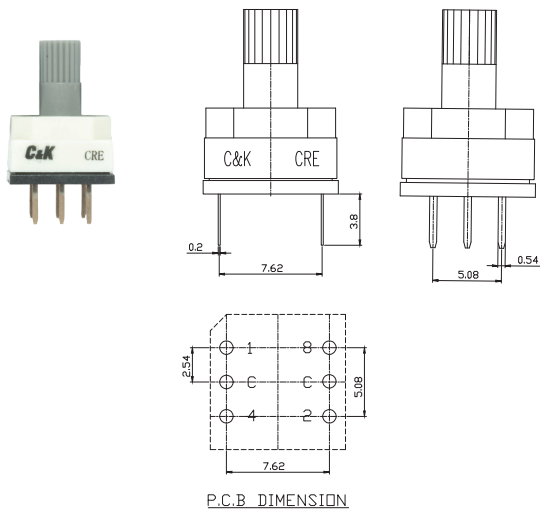
Third Angle
Projection

CRE Series 10mm DIP Coded Rotary Switches

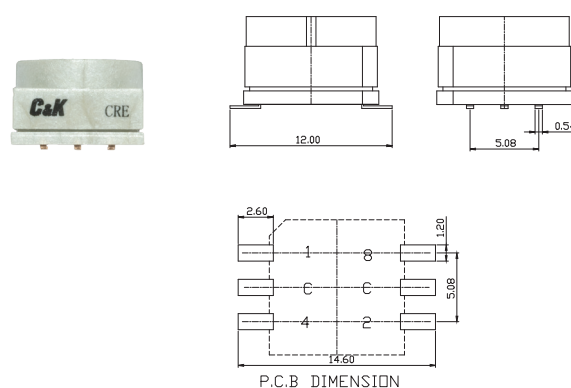
NEW

TERMINATIONS

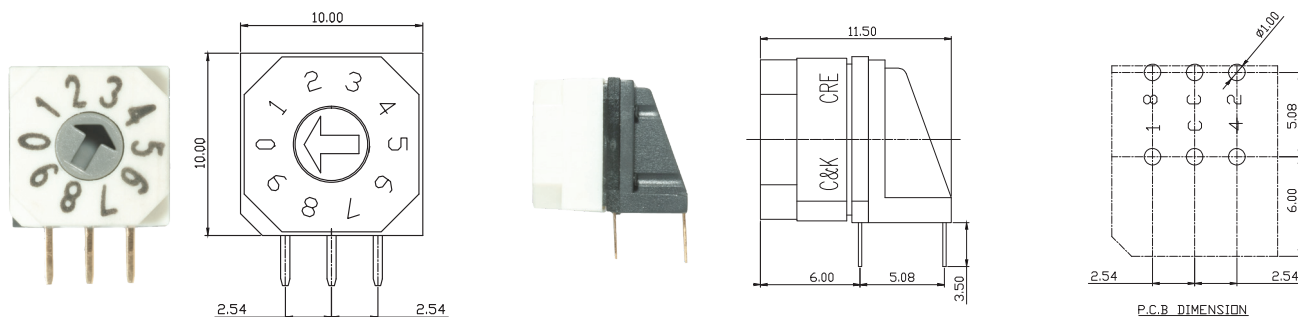
C PC Thru-hole



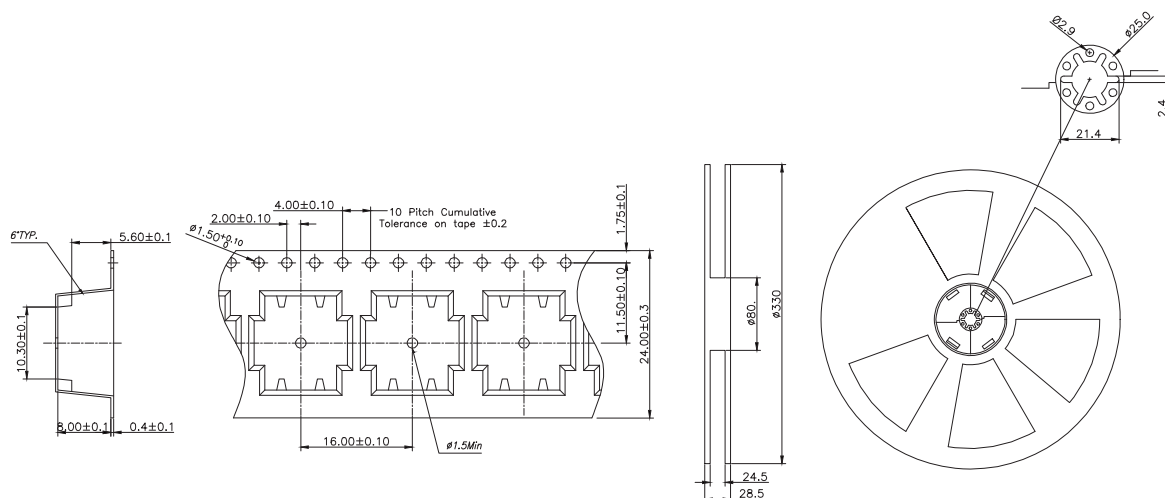
S Gull wing



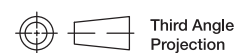
A Right Angle Thru-hole



TAPE & REEL



TAPE & REEL: 600 pcs



Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change



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