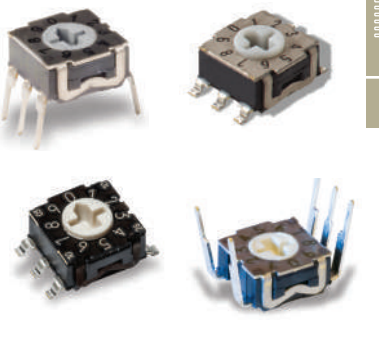
RTE Series
Low Profile Rotary DIP Switches

Features/Benefits

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

Typical Applications

- *Timers, automation components*
- *Computer and peripherals*
- *Alarms, access control, smoke detectors*
- *Instrumentation*



Specifications

CONTACT RATING:
Gold: 100 mA max. 10µ A min. 30 V DC max. 20 mVDC min.
MECHANICAL LIFE: 20,000 actuations
CONTACT RESISTANCE: 100 mΩ max. initial;
150 mΩ after life
INSULATION RESISTANCE: 10^{10} Ω min. initial
DIELECTRIC STRENGTH: 300 Vrms 1 mn
OPERATING TEMPERATURE: -25°C to 85°C.
STORAGE TEMPERATURE: -40°C to 85°C.
PACKAGING: N or R terminations in tube.
V termination in box. G termination in reel, 750 pieces per reel. G termination with flush actuator, 1250 pieces per reel.

Materials

COVER: Brass, nickel plated (black or silver)
BASE: PPS
ACTUATOR: LCP
MOVABLE CONTACTS: Bronze, gold plated.
STATIONARY CONTACTS: Brass, gold plated.
TERMINALS: See page I-28 to I-29
O-RING: Silicone

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

Solderability: Wave soldering 260°/10 s.
SMT are reflow compatible according to C&K lead free specification for SMT components PS-LF-001.

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 [2]
RTE10 [3]
RTE16 [3]

ESD Protection and top plate

0 Without ESD - standard plate
1 With ESD - standard plate [4]
B Without ESD - black plate

Actuator

0 Flush, screwdriver slot
1 Extended shaft [2, 5]
2 Shaft for button [2, 5, 6]

Terminations

N Thru-hole
V Right angle
G Surface mount
M Manual [8]
R Reverse, thru-hole

Switch Function

0 Single pole [3]
1 BCD code
2 BCD complement code [9]
3 Grey Code [10]
4 Hexadecimal code [11]
7 Grey Code [12]

Contact/Terminal Material

4 Gold/ lead free tin

2 - RTE04 version only available with screwdriver slot acuator "0"
3 - Single pole function not available for RTE10/RTE16
4 - ESD protection available with "N" thru-hole termination only
5 - Not available in surface mount
6 - Buttons ordered separately
8 - Manual - available for RTE10/RTE16 with actuator option "2" only
9 - BCD complement code for RTE10, not available with terminations "G" & "M"
10 - Grey Code - for RTE10 only
11 - Hexidecimal code for RTE16 only
12 - Grey code for RTE16 only

Third Angle Projection

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

RTE Series
Low Profile Rotary DIP Switches

SWITCHES WITH STANDARD OPTIONS

PC Mount-Terminal Option N



PART NUMBER WITHOUT ESD PIN	WITH ESD PIN	NO. POS.	FUNCTION	QTY PER TUBE
RTE0400N04	RTE0410N04	4	SP4T	65
RTE1000N14	RTE1010N14	10	BCD	65
RTE1600N44	RTE1610N44	16	HEXADECIMAL	65

Right Angle Mount-Terminal Option V



PART NUMBER	NO. POS.	FUNCTION	QUANTITY
RTE0400V04	4	SP4T	150 per box
RTE1000V14	10	BCD	150 per box
RTE1600V44	16	HEXADECIMAL	150 per box

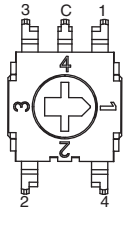
Surface Mount-Terminal Option G



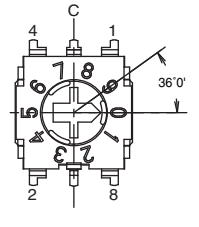
PART NUMBER	NO. POS.	FUNCTION	QUANTITY PER REEL
RTE0400G04	04	SP4T	1250
RTE1000G14	10	BCD	1250
RTE1600G44	16	HEXADECIMAL	1250

NUMBER OF POSITIONS

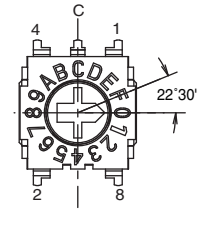
RTE04 4 POSITION



RTE10 10 POSITION



RTE16 16 POSITION

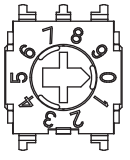


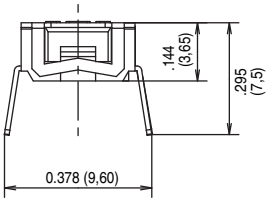
Third Angle Projection

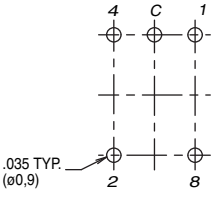
Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

ESD PROTECTION

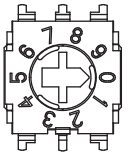
0 WITHOUT

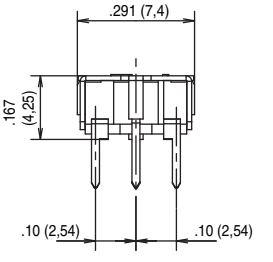


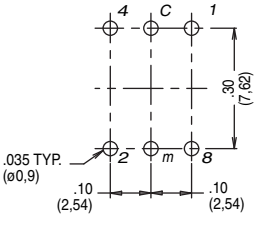




1 WITH

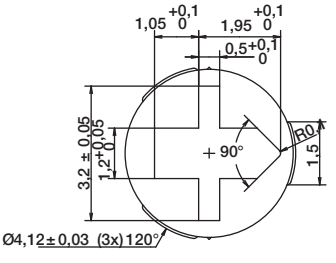




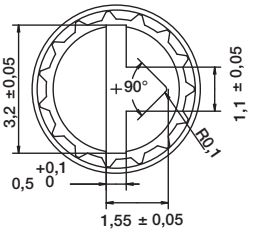


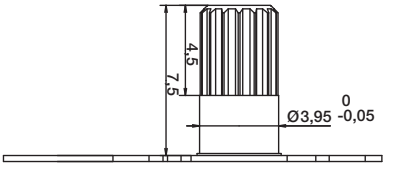
ACTUATOR

0 FLUSH, SCREWDRIVER SLOT

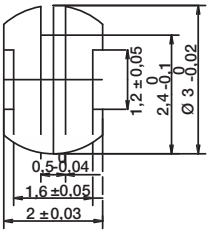


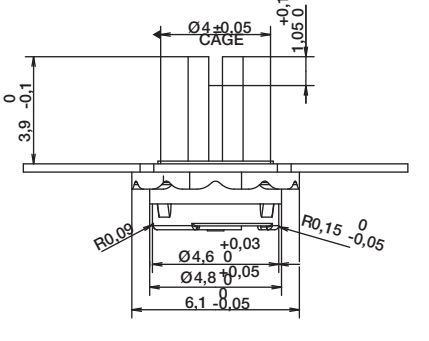
1 EXTENDED SHAFT
(not available in surface mount)





2 SHAFT FOR BUTTON





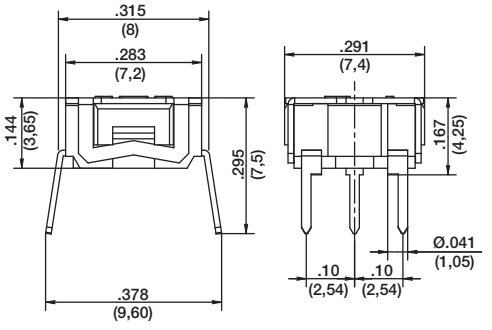
Third Angle Projection

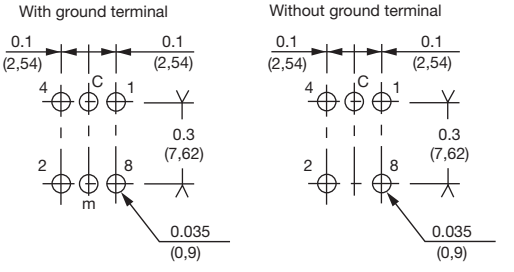
Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

RTE Series
Low Profile Rotary DIP Switches

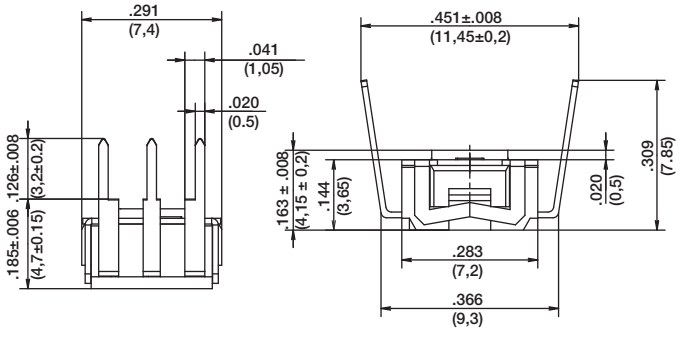
TERMINATIONS

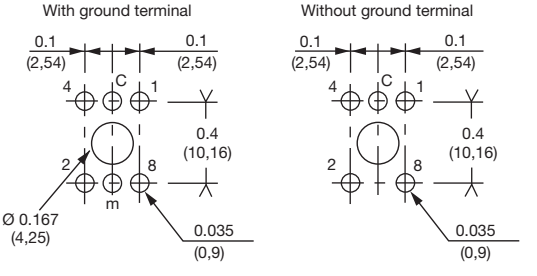
N THRU-HOLE



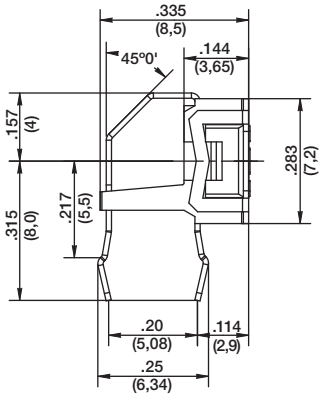


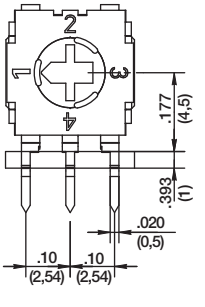
R REVERSE, THRU-HOLE

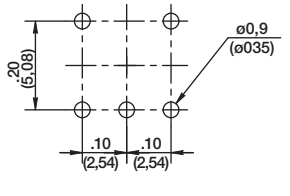




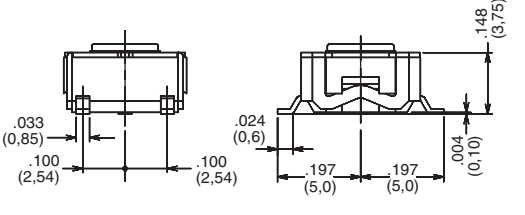
V RIGHT ANGLE, THRU-HOLE

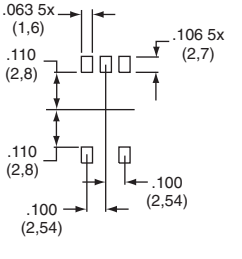






G SURFACE MOUNT





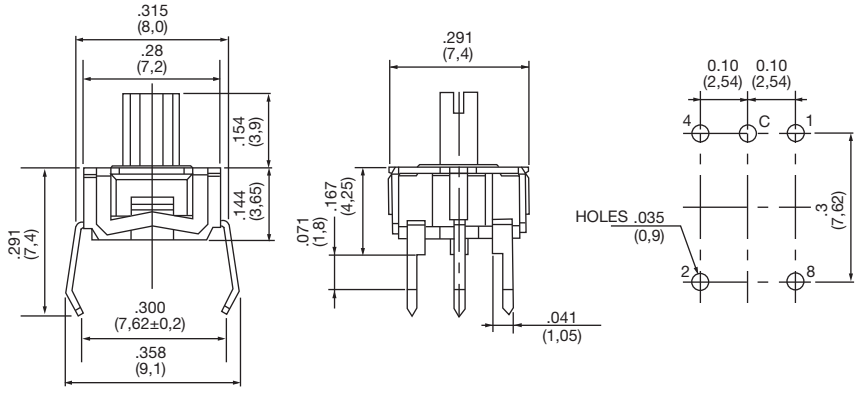
PCB layout seen component side

Third Angle Projection

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

TERMINATIONS

M OPTION



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									●	●

2 **BCD COMPLEMENT CODE**

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

Other codes available by request.

3 **GREY 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	10	11	12	13	14	15
C	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
1		●		●		●		●		●		●		●		●
2			●	●			●	●			●	●			●	●
4					●	●	●	●					●	●	●	●
8									●	●	●	●	●	●	●	●

7 **GREY 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	RoHS COMPLIANT	RoHS COMPATIBLE	CONTACT MATERIAL	TERMINAL PLATING
4	YES	YES	GOLD	LEAD FREE TIN

Third Angle Projection

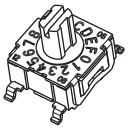
Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

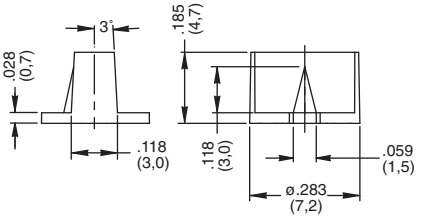
RTE Series
Low Profile Rotary DIP Switches

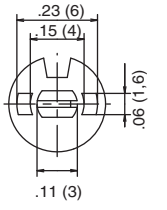
BUTTONS AVAILABLE

Buttons are ordered separately, shipped in bulk.

Part Number	Color
BTN RTE 40	Red
BTN RTE 50	Green
BTN RTE 90	Black

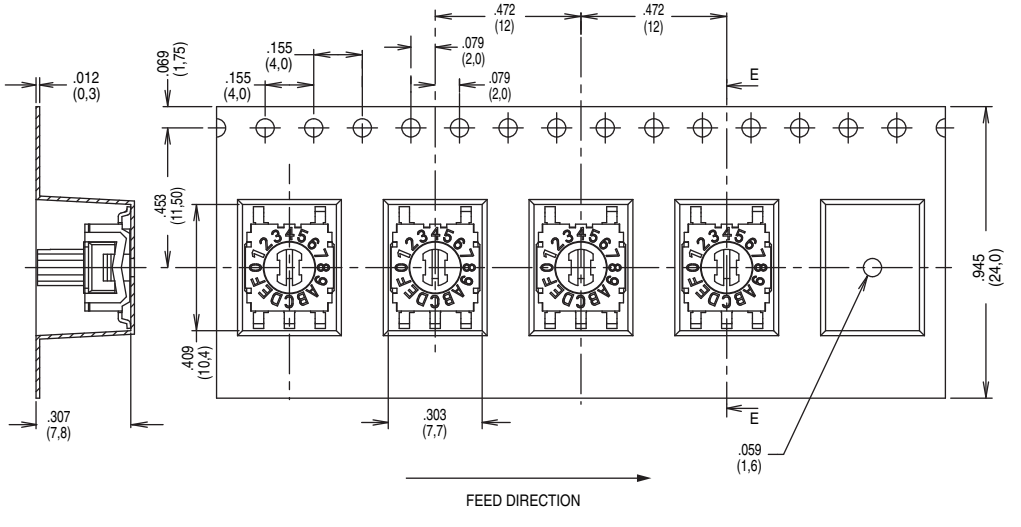




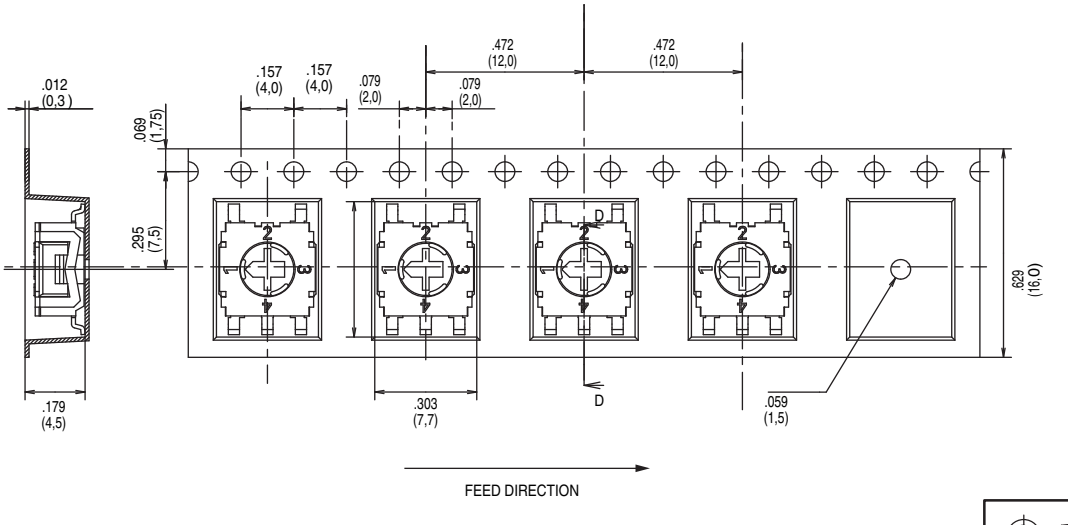


TAPE AND REEL

Tape and reel for RTExx02Gxx
750 pieces per reel.



Tape and reel for RTExx00Gxx
1,250 pieces per reel.



Third Angle Projection

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