

RTE Series

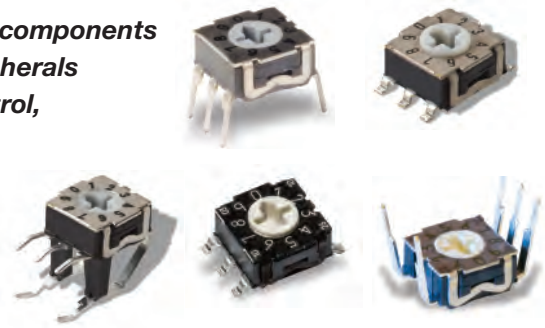
Low Profile Rotary DIP Switches

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



H

DIP

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: 10¹⁰ 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		ESD Protection and top plate		Actuator		Terminations		Contact/Terminal Material	
RTE04 ² RTE10 ³ RTE16 ³		0 Without ESD - standard plate 1 With ESD - standard plate ⁴ B Without ESD - black plate		0 Flush, screwdriver slot 1 Extended shaft ^{2, 5} 2 Shaft for button ^{2, 5, 6}		N Thru-hole V Right angle G Surface mount M Manual ⁸ R Reverse, thru-hole		4 Gold/ lead free tin	
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									

- 2 - RTE04 version only available with screwdriver slot actuator "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



Dimensions are shown: Inch (mm)

Specifications and dimensions subject to change



RTE Series

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H

DIP

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

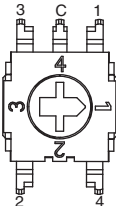
Surface Mount-Terminal Option G



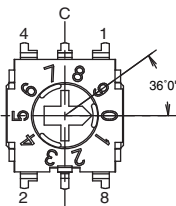
PART NUMBER	NO. POS.	FUNCTION	QUANTITY PER REEL
RTE0400G04	04	SP4T	1250
RTE1000G14	10	BCD	1250
RTE1600G44	16	HEXADECIMAL	1250

NUMBER OF POSITIONS

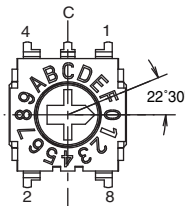
RTE04 4 POSITION



RTE10 10 POSITION



RTE16 16 POSITION



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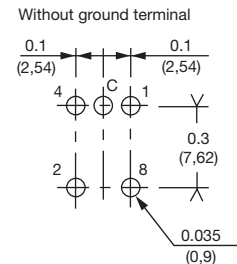
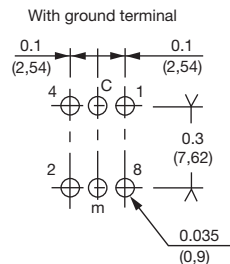
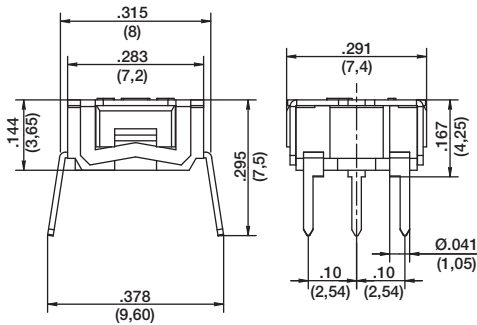
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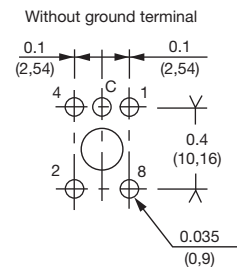
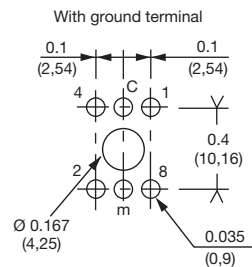
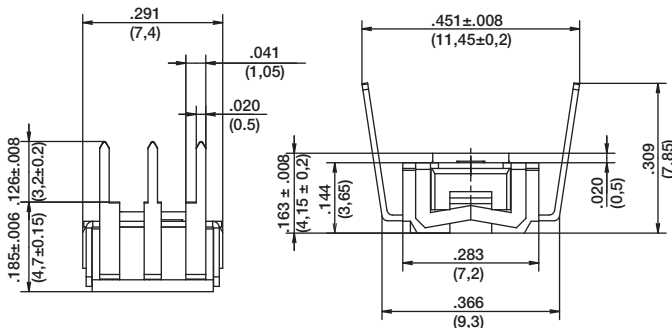
TERMINATIONS



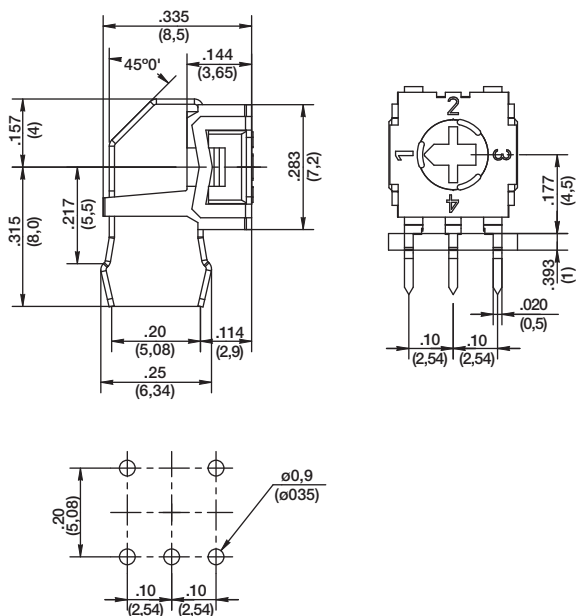
N THRU-HOLE



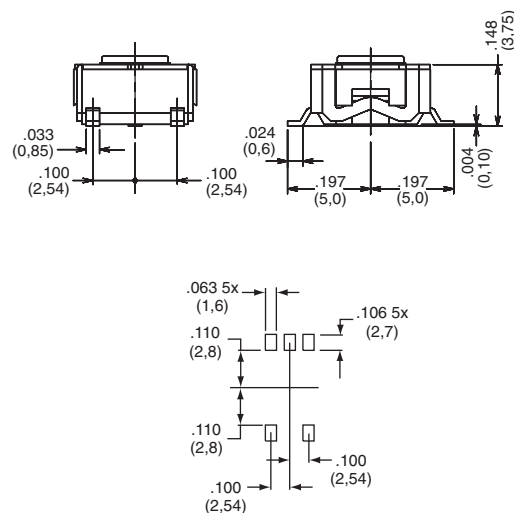
R REVERSE, THRU-HOLE



V RIGHT ANGLE, THRU-HOLE



G SURFACE MOUNT



PCB layout seen component side



Third Angle
Projection

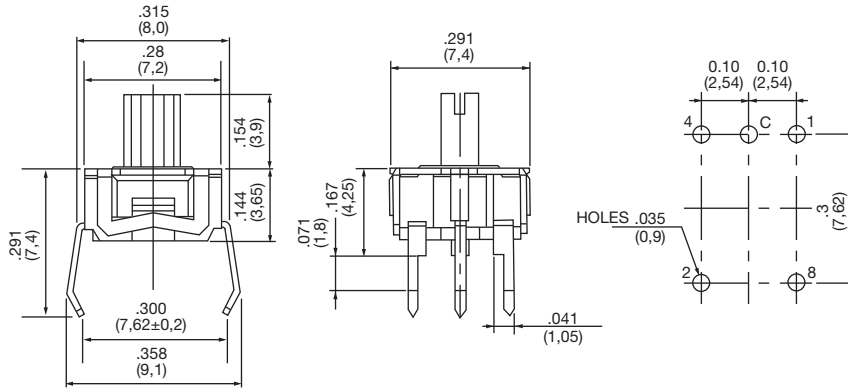


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TERMINATIONS

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



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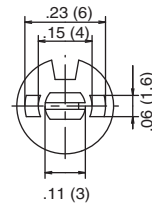
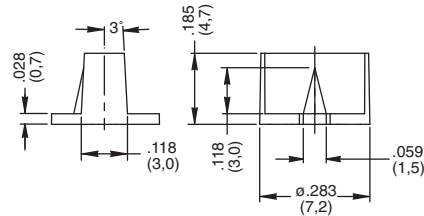
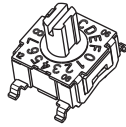
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BUTTONS AVAILABLE

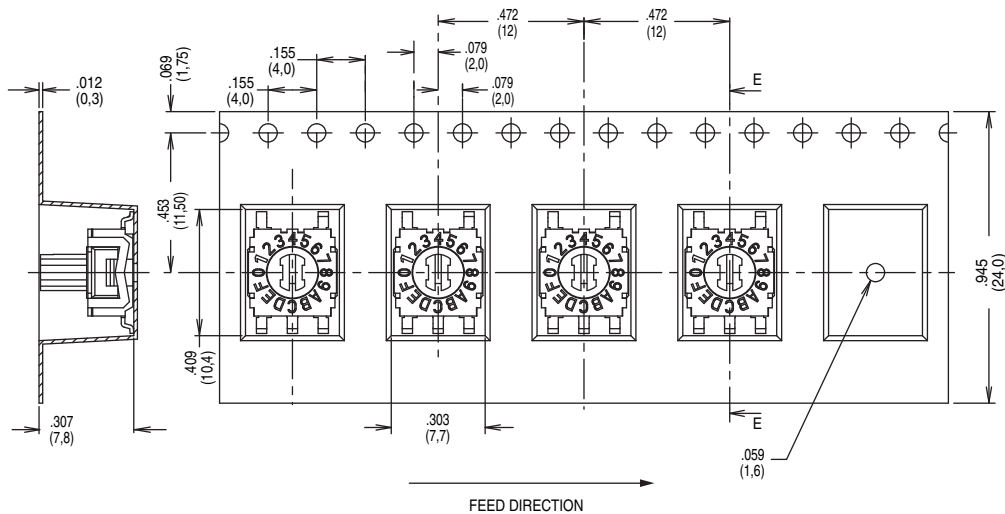
Buttons are ordered separately, shipped in bulk.

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

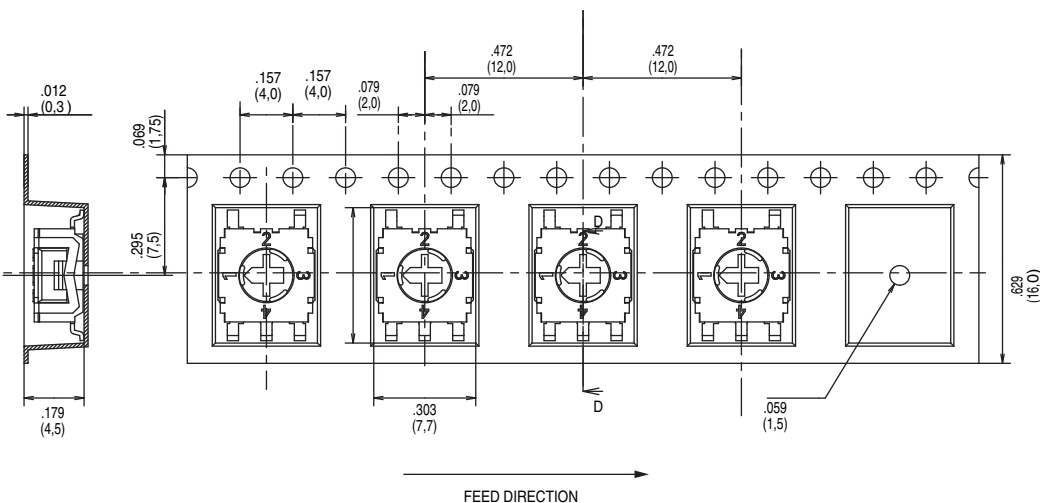


TAPE AND REEL

Tape and reel for RTExx02Gxx
750 pieces per reel.



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



Third Angle
Projection

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