

RTE Series

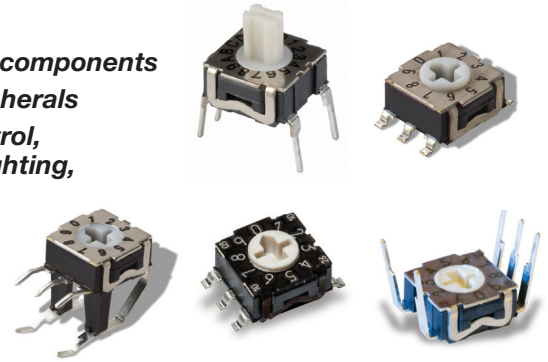
Low Profile Rotary DIP Switches

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

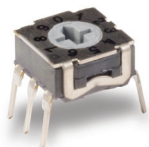
First Angle Projection

1 - Single pole function not available for RTE10/RTE16
2 - ESD protection available with "N" and "R" terminations only

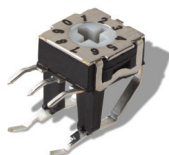
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SWITCHES WITH STANDARD OPTIONS

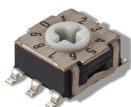
PC Mount-Terminal Option N



Right Angle Mount-Terminal Option V

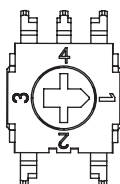


Surface Mount-Terminal Option G

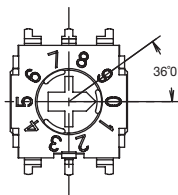


NUMBER OF POSITIONS

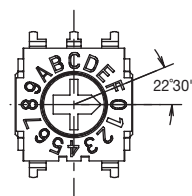
RTE04 4 POSITIONS



RTE10 10 POSITIONS



RTE16 16 POSITIONS



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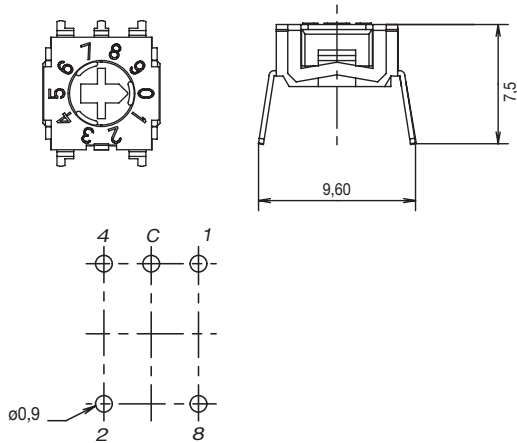
ESD PROTECTION



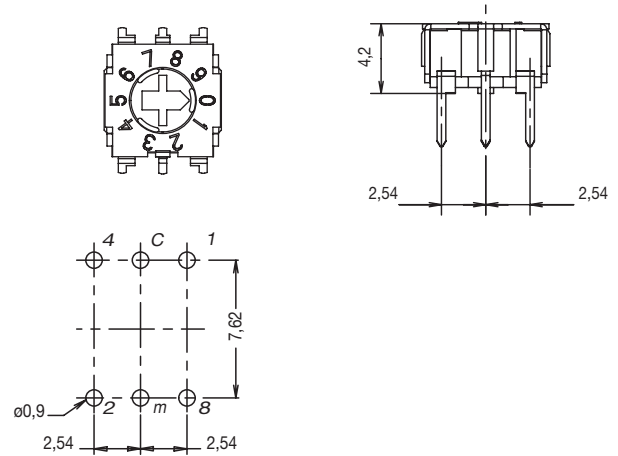
H

DIP

0 WITHOUT

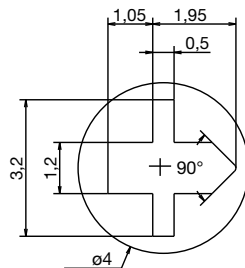


1 WITH

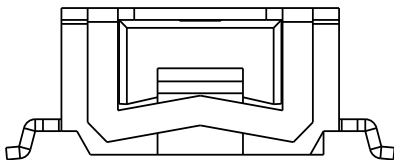


ACTUATOR

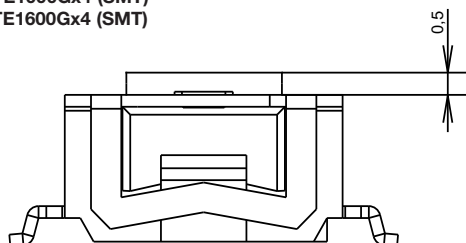
0 SCREWDRIVER SLOT



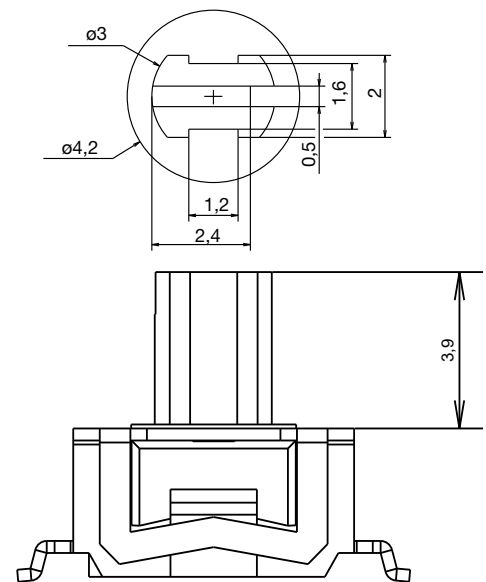
For all RTE versions



Except for RTE1000Gx4 (SMT)
RTE1600Gx4 (SMT)



2 SHAFT FOR BUTTON



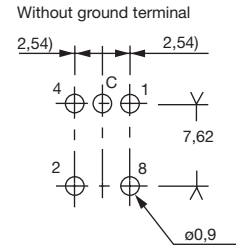
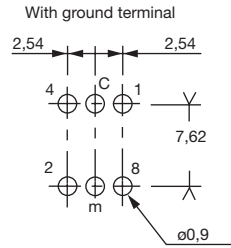
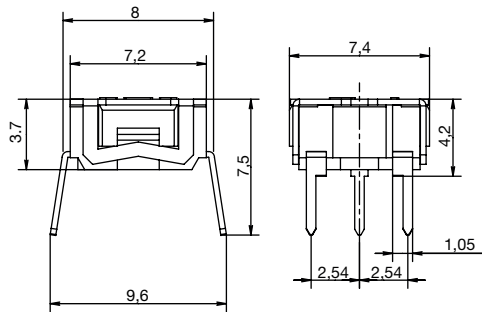
First Angle
Projection

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

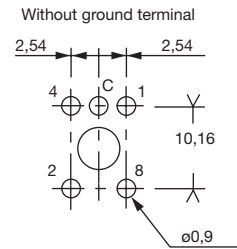
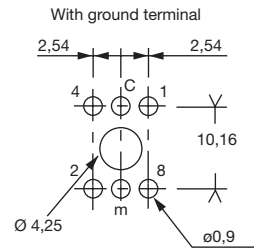
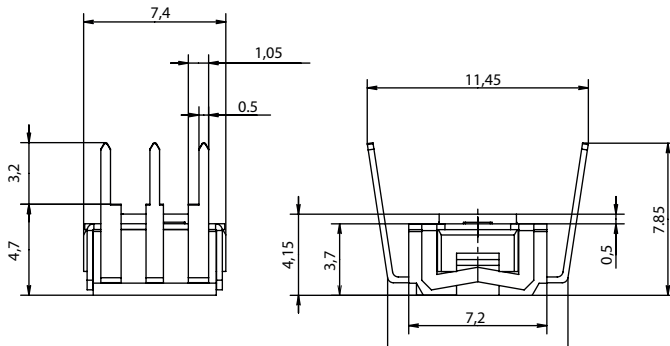
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TERMINATIONS

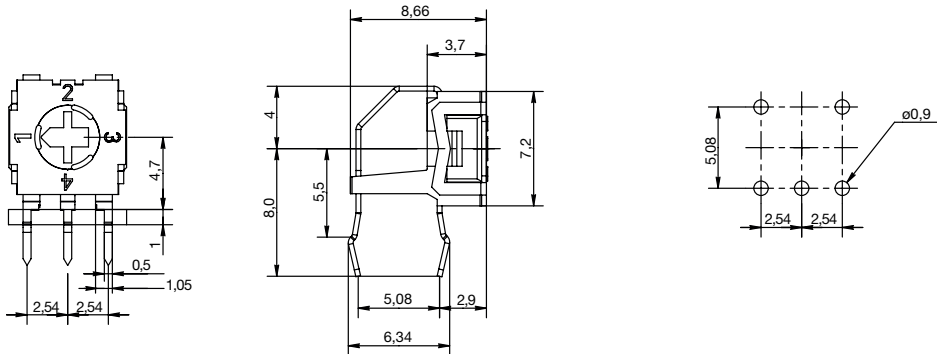
N THRU-HOLE



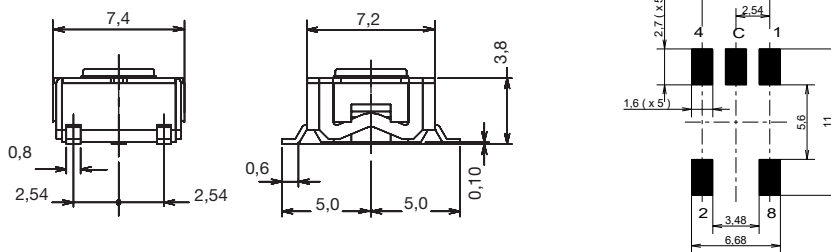
R REVERSE, THRU-HOLE



V RIGHT ANGLE, THRU-HOLE



G SURFACE MOUNT



PCB layout seen component side



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

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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)

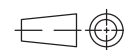
POS.	1	2	3	4
C	●	●	●	●
1	●			
2		●		
4			●	
8				●

(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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

C&K Switches:

<u>RTE0400N04</u>	<u>RTE1000G14</u>	<u>RTE1000N14</u>	<u>RTE1000V14</u>	<u>RTE1600G44</u>	<u>RTE1600N44</u>	<u>RTE1600V44</u>	<u>RTE1610N44</u>
<u>RTE0400V04</u>	<u>RTE1000N24</u>	<u>RTE1000R24</u>	<u>RTE1001N24</u>	<u>RTE1001R14</u>	<u>RTE1002G14</u>	<u>RTE1002N24</u>	<u>RTE1002V14</u>
<u>RTE1010N24</u>	<u>RTE1010R14</u>	<u>RTE1010R24</u>	<u>RTE1011N14</u>	<u>RTE1011N24</u>	<u>RTE1011R24</u>	<u>RTE1012N14</u>	<u>RTE1012N24</u>
<u>RTE1601R44</u>	<u>RTE1602V44</u>	<u>RTE1610R44</u>	<u>RTE1611N44</u>	<u>RTE1611R44</u>	<u>RTE1612N44</u>	<u>RTE1000R14</u>	<u>RTE1002N14</u>
<u>RTE1600R44</u>	<u>RTE1602N44</u>	<u>RTE1010N14</u>	<u>RTE1000N34</u>	<u>RTE0400G04</u>	<u>RTE10B0G14</u>	<u>RTE1002R14</u>	
<u>RTE1000G34</u>	<u>RTE1602G74</u>	<u>RTE1010N34</u>	<u>RTE1010R34</u>	<u>RTE1602G44</u>	<u>RTE1000R34</u>		