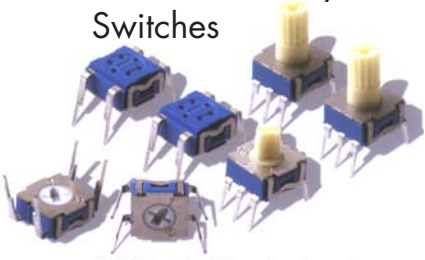


RTE02 and RTE03 Miniature Rotary Switches



RTE02 and RTE03 are two types of a subminiature rotary changeover switch to be mounted on PC boards. PC pins are in a 2.54 mm (0.100) grid.

RTE02 with 2 positions
RTE03 with 3 positions

- 3 operation versions:
 - screw driver slot without shaft
 - knurled plastic shaft with $\varnothing 4.0$ mm ($\varnothing 0.157$) \times 7.5 mm s(0.295) and screw driver slot
 - button in red, green or black
- 2 operation directions:
 - from top (in ordering code: N)
 - from the bottom through the PC board (in ordering code: R, e.g. RTE02R)
- Only N version with screw driver slot for automatic insertion
- Can be wave soldered, resistant to flux soldering
- Cleaning by immersion in a solvent with or without ultrasonic or by water spray
- Optionally without or with ground terminal against electrostatic discharge
- Optionally gold (G) or silver (S) contacts
- Stop after position 2 of RTE02 and after position 3 of RTE03

General features

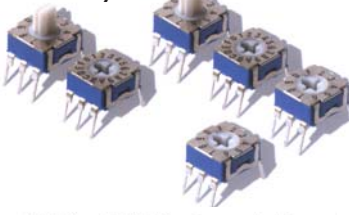
- Mounted on PC board by pins and ground terminal
- Terminal size: 0.3×0.5 mm (0.0118 \times 0.0197)
- Delivered in tubes of 65 pieces for automatic insertion
- Tin-plated terminals

Application

The RTE02 and RTE03 switches are especially designed for telephone bell tune selection, or working mode selection.

Their small size also permits all applications on PCB's to save space (computer, instrumentation, security systems etc.).

RTE10 and RTE16 Miniature Coded Rotary Switches



RTE10 and RTE16 are two coded types of a subminiature rotary switch to be mounted on PC boards. PC pins are in a 2.54 mm (0.100 inch) grid. RTE10 with decimal code, RTE16 with hexadecimal code.

- 3 operation versions:
 - screw driver slot without shaft
 - knurled plastic shaft with $\varnothing 4.0$ mm ($\varnothing 0.157$) \times 7.5 mm (0.295) and screw driver slot
 - button in red, green or black
- Only version with screw driver slot for automatic insertion
- Can be wave soldered, resistant to flux soldering
- Cleaning by immersion in a solvent with or without ultrasonic or by water spray
- Optionally without or with ground terminal against electrostatic discharge
- Gold contacts, tin plated

Applications

- RTE10 is specially designed for direct binary coding with 10 positions and RTE16 for hexadecimal coding with 16 positions
- RTE10 versions with binary code complement or Gray code are also available
- Its small size makes it particularly suitable for all applications on PC boards where it is necessary to save space (computers, instruments, telecom, security, etc)

Characteristics

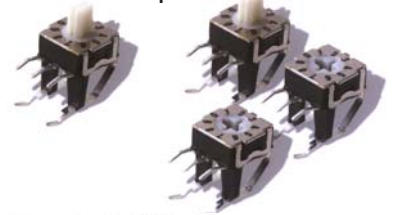
- Dimensions of terminals: 0.3×0.5 mm (0.0118 \times 0.0197)
- Positioning by metallic indexing
- Marked on top face
- Packing for delivery: tubes of 65 pieces for automatic insertion

Automatic insertion

RTE with screw driver slot can be inserted on following automatic machines:

- UNIVERSAL: Unimod (1 head), or Multimode (2 heads)

RTEV Miniature Rotary Switch with Vertical Operation



To complete the RTE product range family, a vertical version is now available. The main advantage of this RTE vertical is the P.C.B. mounting providing a direct actuation from a front panel.

Main features

- 4.5 mm from the P.C.B. to shaft axis
- Available with button, screw driver or knob shaft
- 2 types: RTE10V and RTE16V
- Manual insertion
- Bulk packed of 250 pieces
- Same electrical and mechanical characteristics as standard versions of RTE10 and RTE16
- No ground terminal available.

Truth table

RTE16 Hexadecimal Code					RTE10 Direct Binary Code						
	C	1	2	4	8		C	1	2	4	8
0	X					0	X				
1	X	X				1	X	X			
2	X		X			2	X		X		
3	X	X	X			3	X	X	X		
4	X			X		4	X			X	
5	X	X		X		5	X	X		X	
6	X		X	X		6	X		X	X	
7	X	X	X	X		7	X	X	X	X	
8	X				X	8	X				X
9	X	X			X	9	X	X			X
10	X		X		X						
11	X	X	X		X						
12	X			X	X						
13	X	X		X	X						
14	X	X	X	X	X						
15	X	X	X	X	X						

RTE10 Complement Binary Code					RTE10 Gray Code						
	C	1	2	4	8		C	1	2	3	4
1	X					1	X				
2	X	X				2	X	X			
3	X		X			3	X		X		
4	X	X	X			4	X	X	X		
5	X			X		5	X			X	
6	X	X		X		6	X	X	X	X	
7	X		X	X		7	X		X	X	
8	X	X	X	X		8	X	X	X	X	
9	X				X	9	X			X	X
10	X	X			X	10	X	X	X	X	X

Note: the advantage of the Gray Code is that you change only one digit at the time.