

**NEW**

# CRE Series 10mm DIP Coded Rotary Switches



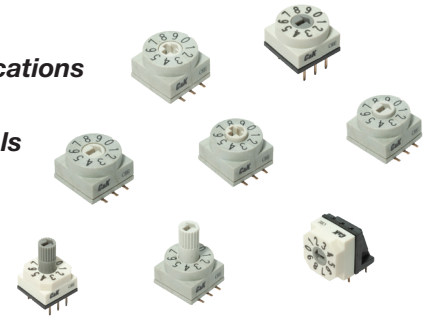
**H  
DIP**

## 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**

## Typical Applications

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



## Specifications

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

MECHANICAL & ELECTRICAL LIFE: 10,000 cycles

INITIAL CONTACT RESISTANCE: 80 milliohms max.

INSULATION RESISTANCE: 100 megohms 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.



Third Angle  
Projection

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



20 Jun 19

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## CODING

DIP I

### R Real Code

04 POSITION

|             |   | Real Code |   |   |   |   |
|-------------|---|-----------|---|---|---|---|
| 04 POSITION |   | C         | 1 | 2 | 4 | 8 |
| 0           | 0 | •         | • |   |   |   |
| 1           | 1 | •         |   | • |   |   |
| 2           | 2 | •         |   |   | • |   |
| 3           | 3 | •         |   |   |   | • |

06 POSITION

|             |   | Real Code |   |   |   |   |
|-------------|---|-----------|---|---|---|---|
| 06 POSITION |   | C         | 1 | 2 | 4 | 8 |
| 0           | 0 | •         | • |   |   |   |
| 1           | 1 | •         |   | • |   |   |
| 2           | 2 | •         |   |   | • |   |
| 3           | 3 | •         |   |   |   | • |
| 4           | 4 | •         | • | • |   |   |
| 5           | 5 | •         |   |   | • |   |
| 6           | 6 | •         |   |   |   | • |

08 POSITION

|             |   | Real Code |   |   |   |   |
|-------------|---|-----------|---|---|---|---|
| 08 POSITION |   | C         | 1 | 2 | 4 | 8 |
| 0           | 0 | •         | • |   |   |   |
| 1           | 1 | •         |   | • |   |   |
| 2           | 2 | •         |   |   | • |   |
| 3           | 3 | •         |   |   |   | • |
| 4           | 4 | •         | • | • |   |   |
| 5           | 5 | •         |   |   | • |   |
| 6           | 6 | •         |   |   |   | • |
| 7           | 7 | •         | • | • | • |   |

10 POSITION

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

16 POSITION

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

PIN 1 INDICATOR



### C Complement Code

04 POSITION

|             |   | Complement Code |   |   |   |   |
|-------------|---|-----------------|---|---|---|---|
| 04 POSITION |   | C               | 1 | 2 | 4 | 8 |
| 0           | 0 | •               | • | • | • | • |
| 1           | 1 | •               | • | • | • | • |
| 2           | 2 | •               | • | • | • | • |
| 3           | 3 | •               | • | • | • | • |

06 POSITION

|             |   | Complement Code |   |   |   |   |
|-------------|---|-----------------|---|---|---|---|
| 06 POSITION |   | C               | 1 | 2 | 4 | 8 |
| 0           | 0 | •               | • | • | • | • |
| 1           | 1 | •               | • | • | • | • |
| 2           | 2 | •               | • | • | • | • |
| 3           | 3 | •               | • | • | • | • |
| 4           | 4 | •               | • | • | • | • |
| 5           | 5 | •               | • | • | • | • |

08 POSITION

|             |   | Complement Code |   |   |   |   |
|-------------|---|-----------------|---|---|---|---|
| 08 POSITION |   | C               | 1 | 2 | 4 | 8 |
| 0           | 0 | •               | • | • | • | • |
| 1           | 1 | •               | • | • | • | • |
| 2           | 2 | •               | • | • | • | • |
| 3           | 3 | •               | • | • | • | • |
| 4           | 4 | •               | • | • | • | • |
| 5           | 5 | •               | • | • | • | • |
| 6           | 6 | •               | • | • | • | • |
| 7           | 7 | •               | • | • | • | • |

10 POSITION

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

16 POSITION

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

PIN 1 INDICATOR



## SHAPE OF SURFACE

### RD Round Type



### OT Octagon Type



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

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**DIP**

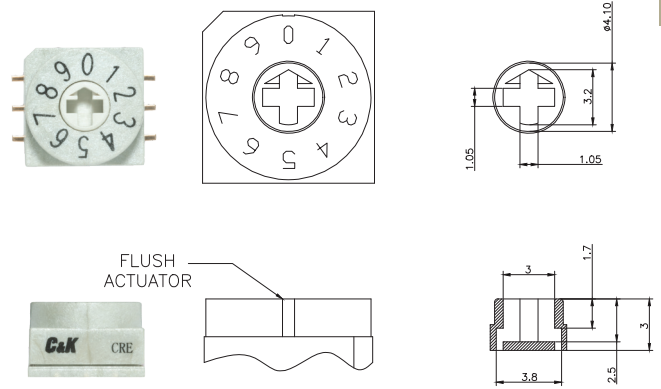
**DIP**

## ACTUATOR

**M0** Flush, Screw type “->”



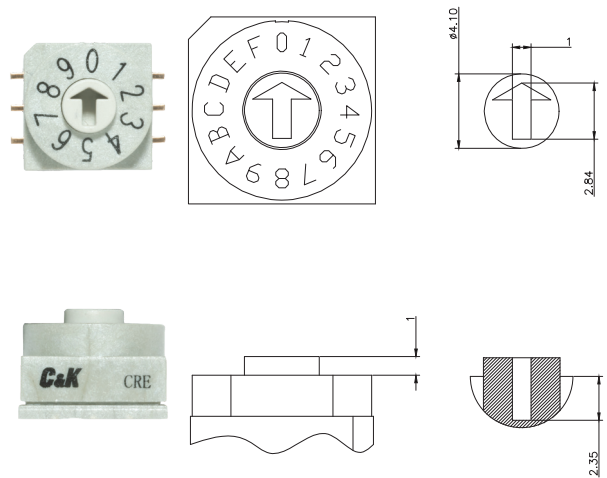
**M1** Flush, Screw type “+”



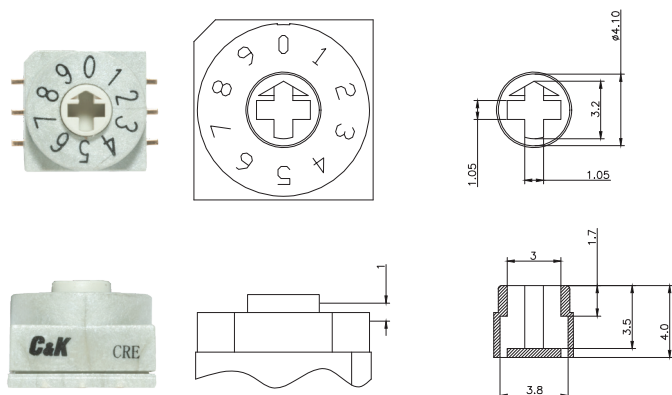
**L0** Extended, Screw type “->”



**P0** Protrusion, Screw type “->”



**P1** Protrusion, Screw type “+”



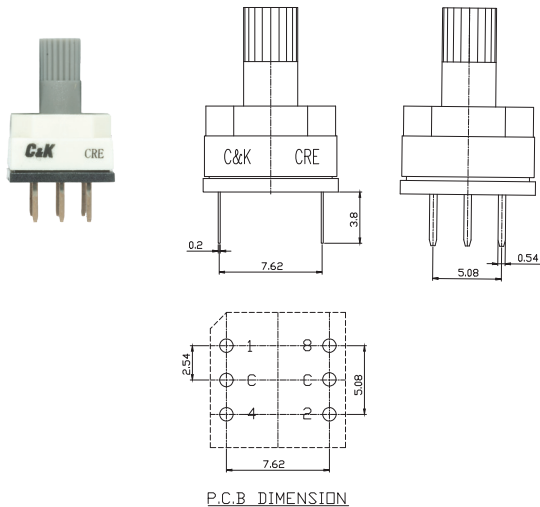
Third Angle  
Projection

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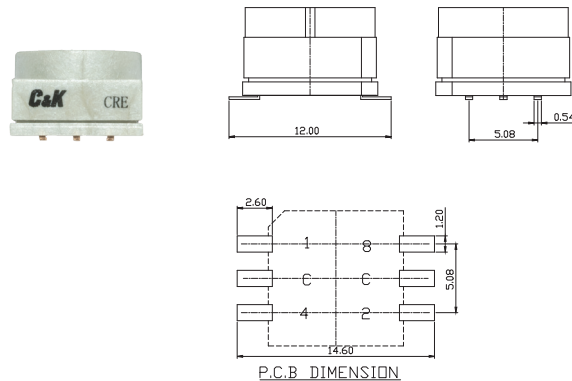
**NEW**

## TERMINATIONS

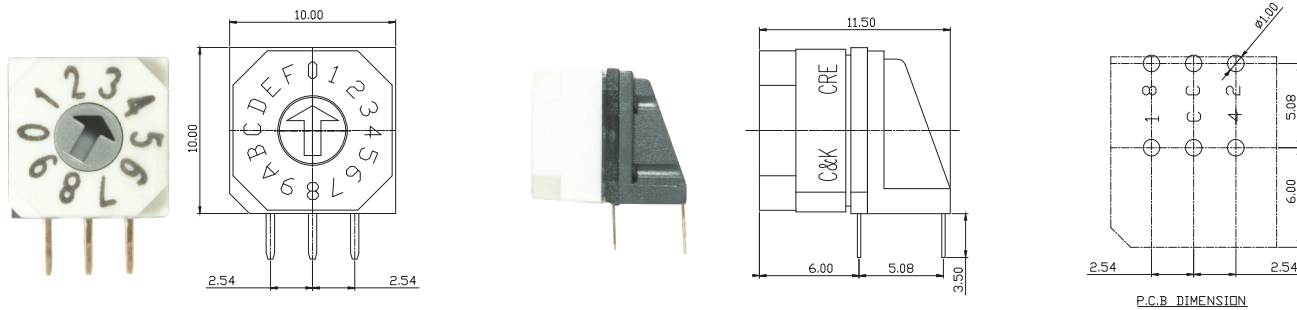
### C PC Thru-hole



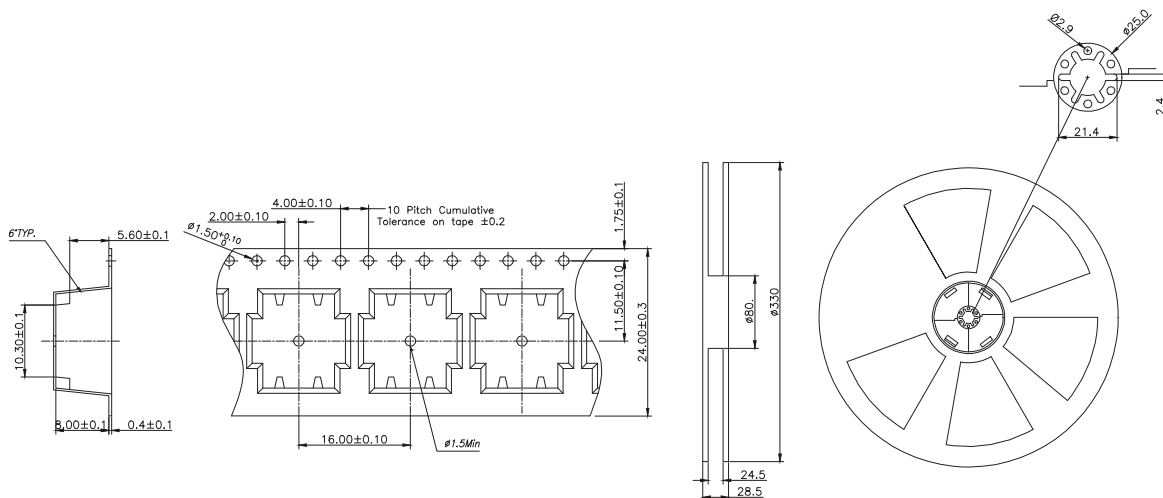
### S Gull wing



### A Right angle, PC thru-hole



## TAPE & REEL



TAPE & REEL: 600 pcs



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



20 Jun 19



## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

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