

# CK ROTARY SWITCH

## GENERAL ELECTRICAL & MECHANICAL SPECIFICATION

|                            |                                                    |
|----------------------------|----------------------------------------------------|
| Switch Rating:             | 150mA@250V ac/dc resistive load                    |
| Current Carrying Capacity  | 5A non switching                                   |
| Life:                      | >10,000 Cycles                                     |
| Operating Temperature:     | -30°C to +85 °C                                    |
| Proof Voltage:             | 1,500Vac (Initial)                                 |
| Insulation Resistance:     | >999 MΩ at 500Vdc (Initial)                        |
| Contact Resistance:        | <20 mΩ (initial)                                   |
| Operating Torque (nominal) | Standard 8.6 ± 1 cNm<br>Light Action 3.5 ± 0.5 cNm |
| End Stop Torque (nominal): | 0.80 Nm                                            |
| Moulding Material:         | Polyamide 6.6 G.F.                                 |
| Contact/Terminal Material: | Brass CZ108 Ag Plated                              |

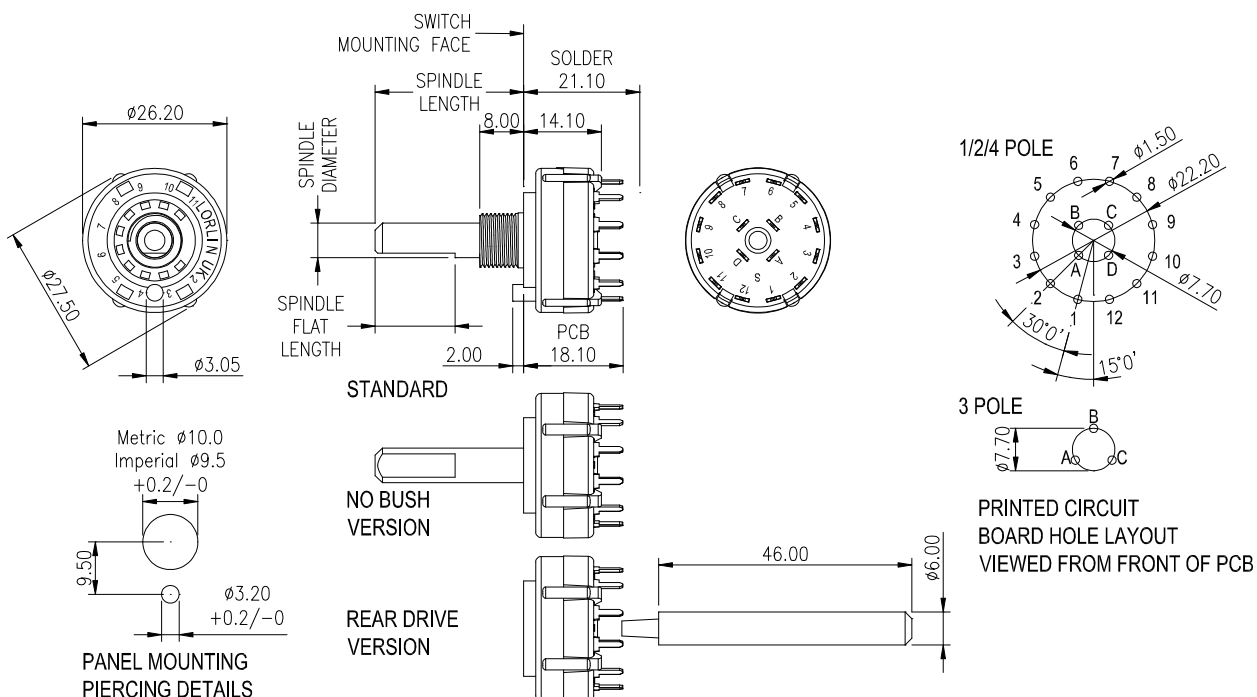
## RoHS COMPLIANT



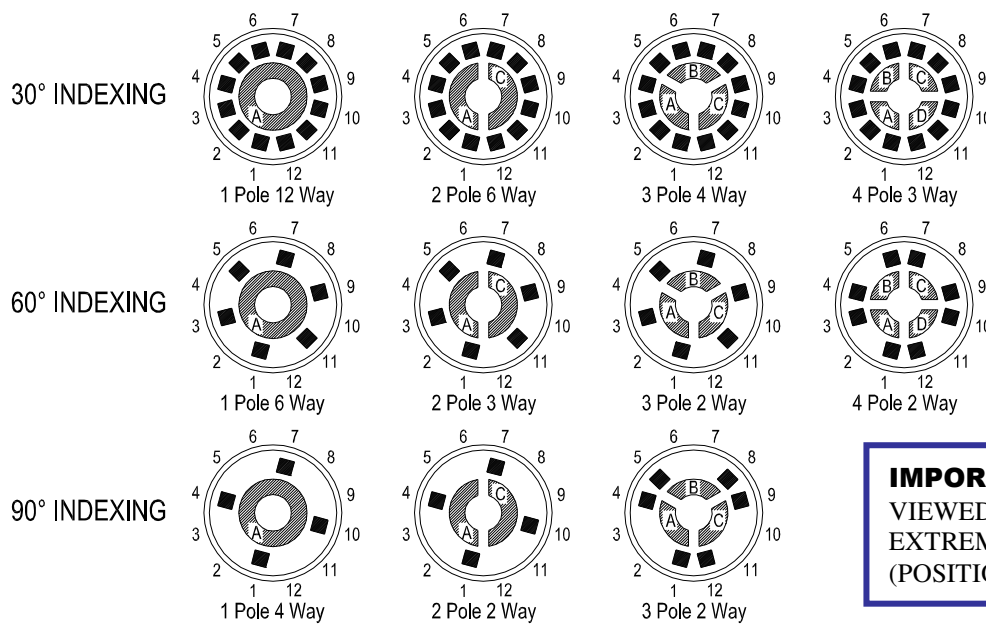
## GENERAL FEATURES & OPTIONS

- Made in UK
- Cost effective single wafer switch
- Moulded 27.5mm diameter
- Standard 30° indexing
- Solder or Printed Circuit Board Terminals
- Up to 4 poles per switch
- Maximum 12 positions
- Shorting (make before break 30° indexing only) or non shorting (break before make) contacts.
- Adjustable stop to restrict number of positions
- Special options: 60° or 90° indexing, continuous rotation,
- Optional reinforcement ring.
- Fixed stop, UL-V0 rated material, gold flashed or gold plated contacts, and spindles with special flats, slots or knurls.
- No Bush versions available
- Rear Drive versions available
- Sealed PCB Termination available

## CK ROTARY SWITCH SPECIFICATION SHEET



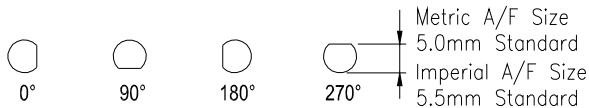
# CK ROTARY SWITCH



**IMPORTANT** WAFERS FLATS & SLOTS VIEWED FROM THE FRONT OF SWITCH IN EXTREME ANTICLOCKWISE POSITION (POSITION 1)

SPINDLE FLAT ANGLE - AVAILABLE IN 15° INCREMENTS

SCREWDRIVER SLOT - AVAILABLE IN 45° INCREMENTS



## ORDERING CODE FOR NON-STANDARD SWITCHES

|          |          |  |  |  |  |  |  |  |  |
|----------|----------|--|--|--|--|--|--|--|--|
| <b>C</b> | <b>K</b> |  |  |  |  |  |  |  |  |
|----------|----------|--|--|--|--|--|--|--|--|

SPINDLE LENGTH  
FMF IN FULL MM

| Index Angles & NO. OF POLES |     |       | NO OF WAYS (POSITIONS) |         |   | MBB or BBM | Contact Type | Contact Plating |   | SPINDLE DIAM. | SPINDLE FLAT DEPTH | BUSH DIAM. | LENGTH OF SPINDLE FLAT |    |   |         | ANGLE OF FLAT (°) |     |   |     |
|-----------------------------|-----|-------|------------------------|---------|---|------------|--------------|-----------------|---|---------------|--------------------|------------|------------------------|----|---|---------|-------------------|-----|---|-----|
| A                           | 30° | 1Pole | A                      | 2       | A | BBM        | Solder       | SILVER          | A | 6mm           | Nil                | M10        | A                      | 2  | N | 15      | A                 | 0   | N | 195 |
| B                           |     | 2     | B                      | 3       | B | MBB        | Solder       |                 | B | 6mm           | 5mm                | M10        | B                      | 3  | O | No Flat | B                 | 15  | O |     |
| C                           |     | 3     | C                      | 4       | C | BBM        | PCB          |                 | C | 6.35mm        | Nil                | 9.52 mm    | C                      | 4  | P | 16      | C                 | 30  | P | 210 |
| D                           |     | 4     | D                      | 5       | D | MBB        | PCB          |                 | D | 6.35mm        | 5.5mm              | 9.52 mm    | D                      | 5  | Q | 17      | D                 | 45  | Q | 225 |
| E                           | 60° | 1Pole | E                      | 6       | E | BBM        | Solder       | GOLD PLATE      | E | 6mm           | Nil                | M10        | E                      | 6  | R | 18      | E                 | 60  | R | 240 |
| F                           |     | 2     | F                      | 7       | F | MBB        | Solder       |                 | F | 6mm           | 5mm                | M10        | F                      | 7  | S | 19      | F                 | 75  | S | 255 |
| G                           |     | 3     | G                      | 8       | G | BBM        | PCB          |                 | G | 6.35mm        | Nil                | 9.52 mm    | G                      | 8  | T | 20      | G                 | 90  | T | 270 |
| H                           |     | 4     | H                      | 9       | H | MBB        | PCB          |                 | H | 6.35mm        | 5.5mm              | 9.52 mm    | H                      | 9  | U | 21      | H                 | 105 | U | 285 |
| I                           | 90° | 1Pole | I                      | 10      | I | BBM        | Solder       | GOLD FLASH      | I | 6mm           | Nil                | M10        | I                      | 10 | V | 22      | I                 | 120 | V | 300 |
| J                           |     | 2     | J                      | 11      | J | MBB        | Solder       |                 | J | 6mm           | 5mm                | M10        | J                      | 11 | W | 23      | J                 | 135 | W | 315 |
| K                           |     | 3     | K                      | 12      | K | BBM        | PCB          |                 | K | 6.35mm        | Nil                | 9.52 mm    | K                      | 12 | X | 24      | K                 | 150 | X | 330 |
|                             |     |       | Z                      | No Stop | L | MBB        | PCB          |                 | L | 6.35mm        | 5.5mm              | 9.52 mm    | L                      | 13 | Y | 25      | L                 | 165 | Y | 345 |
|                             |     |       |                        |         |   |            |              |                 | M | 6.35mm        | 5.5mm              | 9.52 mm    | M                      | 14 | Z | Full    | M                 | 180 |   |     |

PLEASE COMPLETE THE SPECIFICATION DRAWING IF YOUR REQUIREMENTS CANNOT BE FULLFILLED BY USING THE ORDERING CODE

# CK ROTARY SWITCH

## STANDARD PART NUMBERS

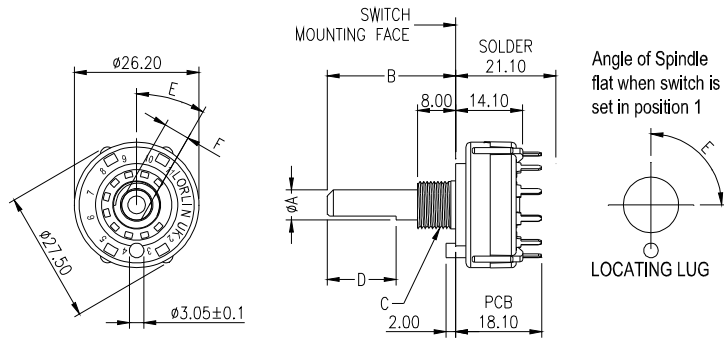
| BASIC TYPES | SPINDLE DIAMETER | SPINDLE LENGTH FROM MOUNTING FACE | 8mm LONG BUSH | SPINDLE FLAT LENGTH | ANGLE OF SPINDLE FLAT | SPINDLE FLAT THICKNESS |
|-------------|------------------|-----------------------------------|---------------|---------------------|-----------------------|------------------------|
| IMPERIAL    | 6.35mm           | 38mm                              | 9.52 x 32TPI  | 30mm                | 90°                   | 5.5mm                  |
| METRIC      | 6.00mm           | 50mm                              | M10 x 0.75    | No Flat             | ---                   | ---                    |

| CIRCUITRY AT 30° INDEXING | PLATING FINISH | STANDARD METRIC             |                    | STANDARD IMPERIAL |                    |
|---------------------------|----------------|-----------------------------|--------------------|-------------------|--------------------|
|                           |                | Shorting (MBB)              | Non-Shorting (BBM) | Shorting (MBB)    | Non-Shorting (BBM) |
| <b>1 POLE 12 POSITION</b> |                | STOP INCLUDED               |                    |                   |                    |
| Solder Tag                | Silver         | CK1039                      | CK1029             | CK1034            | CK1024             |
|                           | Gold Flash     | CK1508                      | CK1503             | CK1516            | CK1520             |
|                           | Gold Plate     | CK2444                      | CK1672             | CK2458            | CK2459             |
| Printed Circuit           | Silver         | CK1059                      | CK1049             | CK1054            | CK1044             |
|                           | Gold Flash     | CK1512                      | CK1506             | CK1524            | CK1528             |
|                           | Gold Plate     | CK1475                      | CK1312             | CK2460            | CK2461             |
| <b>1 POLE 12 POSITION</b> |                | NO STOP CONTINUOUS ROTATION |                    |                   |                    |
| Solder Tag                | Silver         | CK1038                      | CK1028             | CK1033            | CK1023             |
|                           | Gold Flash     | CK1533                      | CK1537             | CK1541            | CK1545             |
|                           | Gold Plate     | CK2445                      | CK2446             | CK2462            | CK2463             |
| Printed Circuit           | Silver         | CK1058                      | CK1048             | CK1053            | CK1043             |
|                           | Gold Flash     | CK1534                      | CK1538             | CK1542            | CK1546             |
|                           | Gold Plate     | CK2447                      | CK2448             | CK2464            | CK2465             |
| <b>2 POLE 6 POSITION</b>  |                | STOP INCLUDED               |                    |                   |                    |
| Solder Tag                | Silver         | CK1040                      | CK1030             | CK1035            | CK1025             |
|                           | Gold Flash     | CK1509                      | CK1496             | CK1517            | CK1521             |
|                           | Gold Plate     | CK2449                      | CK1726             | CK2466            | CK2467             |
| Printed Circuit           | Silver         | CK1060                      | CK1050             | CK1055            | CK1045             |
|                           | Gold Flash     | CK1513                      | CK1473             | CK1525            | CK1529             |
|                           | Gold Plate     | CK2450                      | CK1850             | CK2468            | CK2469             |
| <b>2 POLE 6 POSITION</b>  |                | NO STOP CONTINUOUS ROTATION |                    |                   |                    |
| Solder Tag                | Silver         | CK1114                      | CK1118             | CK1120            | CK1121             |
|                           | Gold Flash     | CK1535                      | CK1539             | CK1543            | CK1547             |
|                           | Gold Plate     | CK2451                      | CK2452             | CK2470            | CK2471             |
| Printed Circuit           | Silver         | CK1119                      | CK1113             | CK1122            | CK1089             |
|                           | Gold Flash     | CK1536                      | CK1540             | CK1544            | CK1548             |
|                           | Gold Plate     | CK2453                      | CK2454             | CK2472            | CK2473             |
| <b>3 POLE 4 POSITION</b>  |                | STOP INCLUDED               |                    |                   |                    |
| Solder Tag                | Silver         | CK1041                      | CK1031             | CK1036            | CK1026             |
|                           | Gold Flash     | CK1510                      | CK1504             | CK1518            | CK1522             |
|                           | Gold Plate     | CK2455                      | CK1577             | CK2474            | CK2475             |
| Printed Circuit           | Silver         | CK1061                      | CK1051             | CK1056            | CK1046             |
|                           | Gold Flash     | CK1514                      | CK1500             | CK1526            | CK1530             |
|                           | Gold Plate     | CK2456                      | CK1952             | CK2476            | CK2477             |
| <b>4 POLE 3 POSITION</b>  |                | STOP INCLUDED               |                    |                   |                    |
| Solder Tag                | Silver         | CK1042                      | CK1032             | CK1037            | CK1027             |
|                           | Gold Flash     | CK1511                      | CK1505             | CK1519            | CK1523             |
|                           | Gold Plate     | CK1673                      | CK1822             | CK2478            | CK2479             |
| Printed Circuit           | Silver         | CK1062                      | CK1052             | CK1057            | CK1047             |
|                           | Gold Flash     | CK1515                      | CK1507             | CK1527            | CK1531             |
|                           | Gold Plate     | CK2457                      | CK1953             | CK2480            | CK2481             |

# CK ROTARY SWITCH

## SPECIFICATION SHEET

CUSTOMER TO COMPLETE OR DELETE AS REQUIRED



|          | A     | B | C             |
|----------|-------|---|---------------|
| IMPERIAL | Ø6.35 |   | Ø9.52 x 32TPI |
| METRIC   | Ø6.00 |   | M10 x 0.75    |

|          | D | E | F |
|----------|---|---|---|
| IMPERIAL |   |   |   |
| METRIC   |   |   |   |

| INDEXING                                                                                                              |     |     |     | INDEXING                                                                                                                                                                                                                  |     |     |     | INDEXING                   |     |     |     | INDEXING      |     |     |     |
|-----------------------------------------------------------------------------------------------------------------------|-----|-----|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|----------------------------|-----|-----|-----|---------------|-----|-----|-----|
| <p>1 POLE</p>                                                                                                         |     |     |     | <p>2 POLE</p>                                                                                                                                                                                                             |     |     |     | <p>3 POLE</p>              |     |     |     | <p>4 POLE</p> |     |     |     |
| POSITIONS                                                                                                             |     |     |     | POSITIONS                                                                                                                                                                                                                 |     |     |     | POSITIONS                  |     |     |     | POSITIONS     |     |     |     |
| MBB                                                                                                                   | BBM | SOL | PCB | MBB                                                                                                                                                                                                                       | BBM | SOL | PCB | MBB                        | BBM | SOL | PCB | MBB           | BBM | SOL | PCB |
| <b>IMPORTANT!</b> WAFERS FLATS & SLOTS VIEWED FROM THE FRONT OF SWITCH IN EXTREME ANTICLOCKWISE POSITION (POSITION 1) |     |     |     |                                                                                                                                                                                                                           |     |     |     |                            |     |     |     |               |     |     |     |
| SPECIAL REQUIREMENTS                                                                                                  |     |     |     |                                                                                                                                                                                                                           |     |     |     |                            |     |     |     |               |     |     |     |
|                                                                                                                       |     |     |     | <b>OPTIONS</b> Stops are adjustable 2-12 positions. Continuous rotation (No Stops) available. Make before break (MBB) or Break before Make (BBM) rotors available. Solder Tag (SOL) or PCB pin (PCB) – indicate on wafer. |     |     |     |                            |     |     |     |               |     |     |     |
| CUSTOMER:                                                                                                             |     |     |     | DATE:                                                                                                                                                                                                                     |     |     |     | CUSTOMER REFERENCE NUMBER: |     |     |     |               |     |     |     |

## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

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<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

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