## : ©hipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation, and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!


## Contact us

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## Features/Benefits

- Snap-in front mount design for easy assembly
- 10 position models available


## Typical Applications

- Test \& measurement equipment
- Industrial machinery
- Computer peripherals


## Specifications

## CONTACT RATING:

CARRY: 1 AMP continuous.
SWITCH: 0.4 VA max., 100 mA max., 28 V DC max.
OPERATING VOLTAGE: 50 mV to 28 V DC.
ELECTRICAL LIFE: 100,000 actuations.
CONTACT RESISTANCE: Below $300 \mathrm{~m} \Omega$ typ. @
2-4 V DC, 100 mA .
INSULATION RESISTANCE: $10^{9} \Omega \mathrm{~min}$. (dry). DIELECTRIC STRENGTH: 500 Vrms min. @ sea level
between common terminal and any output.
OPERATING TEMPERATURE: $-10^{\circ} \mathrm{C}$ to $65^{\circ} \mathrm{C}$.

## Materials

HOUSING: Polycarbonate (UL 94V-0).
PUSHWHEEL: Polycarbonate (UL 94V-0).
PUSHBUTTON: Polycarbonate (UL 94V-0).
ROTOR CONTACTS: Gold over nickel over copper alloy.
STATOR CONTACTS: Hard gold over nickel over copper on epoxy fiberglass.
NOTE: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

Note: All models listed are RoHS compliant. See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

## Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages $\mathrm{M}-12$ thru $\mathrm{M}-15$. For additional options not shown in catalog, consult Customer Service Center. Consult factory for illumination availability.


## SERIES $\square \square$ ппппп

3P
MINIATURE PUSHWHEEL SWITCH

$\mathrm{N}=$ Number of sections.

## NUMBER OF SECTIONS - $\square$ -

0 Switch section only, no endplates.
1-4 Number of switch sections in assembly, includes endplates.

## NOTE: Endplates and blank sections available separately, see page M-14

## 

21 BCD 1-2-4-8, 10 POSITION


Available Terminations: P, 0, 1, N
See figs. 2 \& 3, page $\mathrm{N}-19$.

23 COMPLEMENT OF BCD 1-2-4-8 10 POSITION


Available Terminations: 0, 1, N
See figs. 2 \& 3, page $\mathrm{N}-19$.

NOTE: For terminal location diagrams, see page M-14

## MOUNTING STYLE $-\square \square \square \square \square$

0 SNAP-IN FRONT MOUNT, SECTION PITCH: . 300 (7,62) EACH SECTION

$\mathrm{N}=$ Number of sections.
Recommended panel thickness:
.039-. 156
(0,99-3,95)

3 SNAP-IN FRONT MOUNT WITH SPACER,
SECTION PITCH: . 400 ( 70,16 ) EACH SECTION, LAST SECTION $300(7,62)$

$N=$ Number of sections.

Recommended panel thickness: .039-. 156
(0,99-3,95)

TERMINATIONS $\square \square \square \square \square \square$

0 short pcB


P EXTENDED PCB, TYPE 1 WITH SOLDER PINS


For terminal location numbers, see next page. $\quad * *$ Note: Termination option N (RoHS compliant) replaced termination option 3 (Non-RoHS compliant). Signal traces cut, except for common(s).

1 EXTENDED PCB WITH PROVISION FOR COMPONENTS


Signal traces cut, except for common(s).
9 ANY COMBINATION OF TERMINATION CONFIGURATIONS OR SPECIAL TERMINATIONS

Specify on configuration form, page M-15 and consult Customer Service Center.

N SHORT PCB, TYPE O WITH SOLDER PINS


For terminal location numbers, see next page

NOTE: All terminal holes shown may not be present for all function codes, consult Customer Service Center.

## 3P Series

Miniature Pushwheel Switches

## TERMINATIONS $-\square \square \square \square \square$

Terminal Location Numbers


## 

0 MATTE BLACK HOUSING (Gloss black wheel with white characters, black pushbuttons, no stops.)

## 

0 no Lens
2 DUST LENS (Protects character face of the wheel from abrasion and dust.)


| Blank sections, 300 THK. |
| :--- |

Stop pins

PART NO
657800000

## 8



Third Angle Projection

# 3P Series <br> Miniature Pushwheel Switches 

## Configuration Form <br> GRAY SHADED AREAS TO BE FILLED IN BY CUSTOMER SERVICE.

## CATALOG PART No.

C\&K PART NUMBER

| 3 | P |
| :--- | :--- | :--- | :--- |



| COMPANY NAME |  | CUSTOMER PRINT REVISION |
| :---: | :---: | :---: |
| ADDRESS | TEL.\# |  |
| CUSTOMER CONTACT | DATE | DETAILS: |
| ORIGINATED BY | SALES |  |



FOR SWITCHES WITH MORE THAN 11 SECTIONS, CONTINUE ON ADDITIONAL SHEETS.
SPECIAL INSTRUCTIONS OR SPECIFICATIONS:

