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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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## Single Pole General Purpose

E13, E14, G13

## Typical Applications

- Household appliances
- Long life coil spring, snap action mechanism
- Agency approved extended life versions available
- RoHS compliant
- High temperature versions available - contact factory
- Automated assembly lines
- Brake switch on utility vehicles
- Industrial and accessible door openers
- Vending machines


Electrical Specifications per UL1054

| E13 ${ }^{2}$ | 6000 operations; 100,000 available - contact factory | $\begin{array}{r} 15 \mathrm{~A}, 125 / 250 \text { VAC } \\ 3 / 4 \mathrm{HP}, 125 \mathrm{VAC} / 11 / 2 \mathrm{HP}, 250 \text { VAC } \\ 2 \mathrm{~A}, 48 \text { VDC } \end{array}$ |
| :---: | :---: | :---: |
| E14 ${ }^{2}$ | 6000 operations | $\begin{array}{r} 25 \mathrm{~A}, 125 / 250 \text { VAC } \\ 1 \mathrm{HP}, 125 \mathrm{VAC} / 2 \mathrm{HP}, 250 \text { VAC } \\ 2 \mathrm{~A} \mathrm{~A}, 48 \text { VDC } \end{array}$ |
| G13 | 100,000 operations | $\begin{array}{r} 0.1 \mathrm{~A}, 125 \mathrm{VAC} \\ 0.1 \mathrm{~A}, 30 \mathrm{VDC} \\ \hline \end{array}$ |

${ }^{2} \mathrm{DC}$ ratings to $105^{\circ} \mathrm{C}\left(221^{\circ} \mathrm{F}\right)$ only

## Commonly Stocked Distributor Parts

| E13-00E0 | E13-00M0 | E14-00A0 | E14-01M0 |
| :--- | :--- | :--- | :--- |
| E13-00H0 | E13-01E0 | E14-00H0 | E14-50H0 |
| E13-00J0 | E13-01H0 | E14-00K0 | G13-00M0 |
| E13-00K0 | E13-50H0 | E14-00M0 | G13-50H0 |

## Notes:

Part numbers with a leading 0 are functionally no different than without a leading 0 (ex.: 0E13-00E0 is the same switch as E13-00E0).
Quick-connect terminals are standard; for custom screw terminals, contact the factory or your distributor.
For configurable part numbers not listed above or for custom part numbers, contact the factory or your distributor

## Actuator Specifications ${ }^{3}$

E13／G13 Series

| Actuator |  | Max Operating Force g（lb） | Max Pre－Travel mm（in） | Operating Point ${ }^{4}$ <br> mm（in） | Min Over－ Travel mm（in） | Max Movement Differential mm（in） | Actuation Length ${ }^{5}$ $\mathrm{mm} \text { (in) }$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| E | 『『『－ | 425 （0．94） | 1.27 （0．050） | $7.24 \pm 0.51$（0．285 $\pm 0.020)$ | 2.54 （0．100） | 0.38 （0．015） | N／A |
| H | Fos | 100 （0．22） | 6.35 （0．250） | $7.93 \pm 1.57$（0．312 $\pm 0.062)$ | 4.75 （0．187） | 2.36 （0．093） | 38.10 （1．500） |
| H | High ratio | 65 （0．14） | 8.71 （0．343） | $7.14 \pm 1.57$（0．281 $\pm 0.062)$ | 4.75 （0．187） | 3.56 （0．14） | 44.45 （1．750） |
| J | －${ }^{\text {cext }}$ | 425 （0．94） | 1.27 （0．050） | $17.02 \pm 0.76$（0．670 $\pm 0.030)$ | 2.74 （0．108） | 0.38 （0．015） | N／A |
| K | ， | 100 （0．22） | 6.35 （0．250） | $18.24 \pm 1.57$（0．718 $\pm 0.062)$ | 4.75 （0．187） | 2.36 （0．093） | 35.33 （1．391） |
| K | High ratio | 63 （0．14） | 10.24 （0．403） | $17.45 \pm 1.57$（0．687 $\pm 0.062)$ | 4.75 （0．187） | 2.36 （0．093） | 41.28 （1．625） |
| M | ＊ | 425 （0．94） | 1.27 （0．050） | $20.63 \pm 0.76$（0．812 $\pm 0.030)$ | 5.54 （0．218） | 0.38 （0．015） | N／A |


${ }^{3}$ Contact factory regarding combinations not shown
${ }^{4}$ Measured above reference line；refer to dimensional drawing below
${ }^{5}$ Actuator tolerances $\pm 0.791 \mathrm{~mm}(0.031 ")$ ；G13 has operating point tolerance of $\pm 7.62(0.30)$ ；E14 H and K actuators are shorter and formed up $11^{\circ}$ at the button

## Material Specifications

| Case | General Purpose Phenolic |
| :--- | ---: |
| Actuating Button | Thermoplastic |
| Common Terminal | Copper Alloy |
| NO and NC Terminal | Copper Alloy（E13，G13） |
| Copper（E14） |  |
| Moving Blade | Copper Alloy（E13，G13） |
| Spopper（E14） |  |
| Auxiliary Actuators | Stainless Steel |
| Roller | Cold－Rolled Steel（Nickel－Plated） |
| Contacts | Sintered Stainless Steel |

## Environmental Specifications

|  | $105{ }^{\circ} \mathrm{C}\left(221{ }^{\circ} \mathrm{F}\right)$ standard <br> $150^{\circ} \mathrm{C}\left(302^{\circ} \mathrm{F}\right)$ available <br> Temperature Rating |
| :--- | ---: |
| Flammability Rating | $200^{\circ} \mathrm{C}\left(392{ }^{\circ} \mathrm{F}\right)$ available for E13 |



## Dimensions－see page 3

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## Dimensions - mm (inches)



