



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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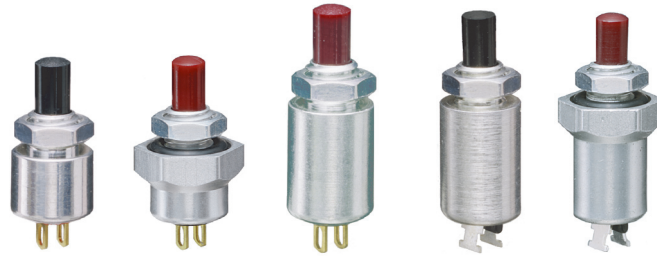
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



**SERIES 39**  
SPST, 150 mA to 1/2 Amp

**FEATURES**

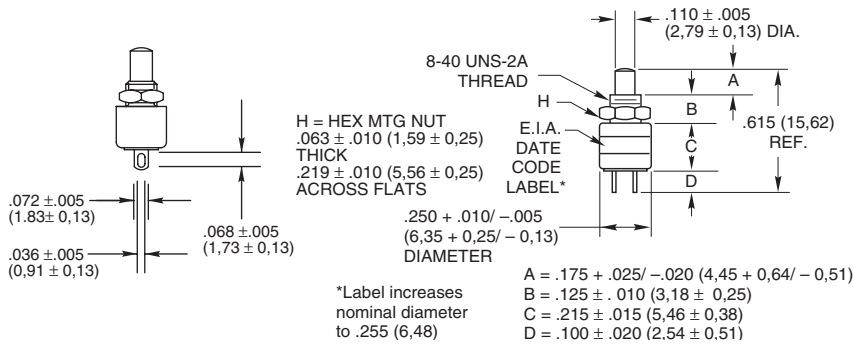
- Requires an Absolute Minimum of Space
- Molded-In Terminals in SPST-N.O.
- Solder Lug Terminals



**DIMENSIONS** in inches (and millimeters)

**Normally Open-SPST Economy and Standard Version**

39-1  
39-3  
39-601\*



**Economy Version**

Electrical Ratings	Operations at Rated Load	*Complete Part Number	Button Color
At 5 Vdc 150 mA	At 20 Vdc 20 mA	1,000,000	39-601 RED 39-601 BLK

Action	Total Travel	Actuating Force (oz.)	Mtg. Hole
Momentary	.035 ± .015 (0,89 ± 0,38)	4 + 4 - 2	11/64" (4,37) DIA.

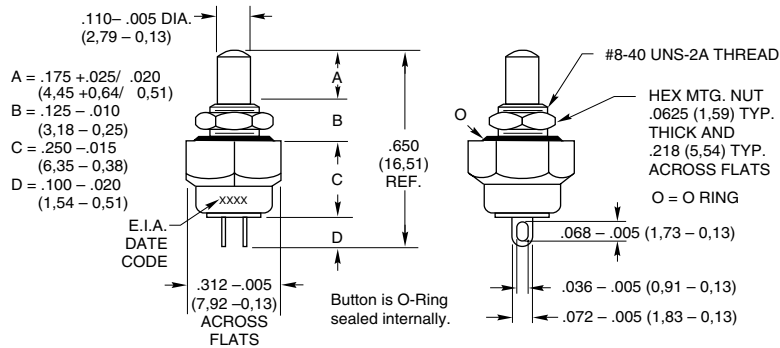
**Standard**

Electrical Ratings	Operations at Rated Load	Complete Part Number	Button Color
At 115 Vac 1/2 Amp Res.	At 220 Vac 1/4 Amp Res.	1,000,000	39-1 39-3

Action	Total Travel	Actuating Force (oz.)	Mtg. Hole
Momentary	.035 ± .015 (0,89 ± 0,38)	4 + 4 - 2	11/64" (4,37) DIA.

**Normally Open-SPST with Sealed Bushing and Button**

39-351\*

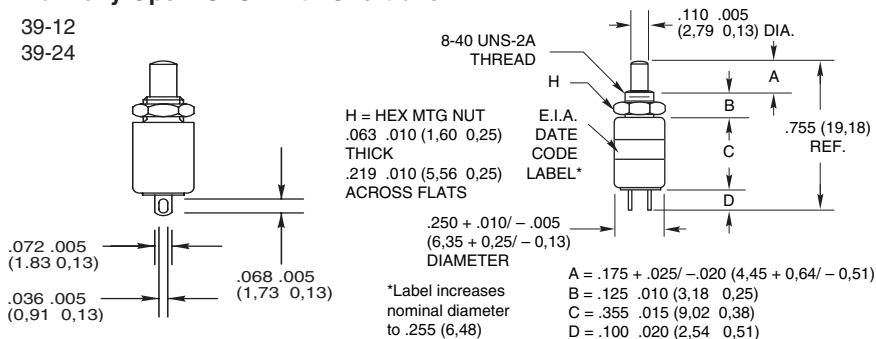


Rating at 115 Vac Resistive	Rating at 220 Vac Resistive	Operations at Rated Load	*Complete Part Number	Button Color
1/2 Amp	1/4 Amp	250,000	39-351 RED 39-351 BLK	Red Black

Action	Total Travel	Actuating Force (oz.)
Momentary	.035 ± .015 (0,89 ± 0,38)	16 ± 8

**Normally Open-SPST with Overtravel**

39-12  
39-24



Rating at 115 Vac Resistive	Rating at 220 Vac Resistive	Operations at Rated Load	Complete Part Number	Button Color
1/2 Amp	1/4 Amp	100,000	39-12 39-24	Red Black

Action	Total Travel	Over Travel	Actuating Force (oz.)	Mtg. Hole
Momentary	.130 ± .025 (3,30 ± 0,64)	.015 (0,38) Min.	5 ± 3	11/64" (4,37) DIA.

Pushbutton Switches

## DIMENSIONS in inches (and millimeters)

### Normally Closed-SPST

39-2

H = HEX MTG NUT  
.063 - .010 (1,60 - 0,25)  
THICK  
.219 - .010 (5,56 - 0,25)  
ACROSS FLATS

8-40 UNS-2A  
THREAD

E.I.A. DATE  
CODE  
LABEL\*

.105 - .005  
(2,67 - 0,13) DIA.

.780 (19,81)  
REF.

.100 ± .010  
(2,54 ± 0,25)

.250 + .010 / .005  
(6,35 + 0,25 / 0,13)  
DIAMETER

\*Label increases nominal diameter to .255 (6,48)

A = .175 - .025 (4,45 - 0,64)  
B = .125 - .010 (3,18 - 0,25)  
C = .390 - .010 (9,91 - 0,25)  
D = .100 (2,54) MAX.

Rating at 115 Vac Resistive	Rating at 220 Vac Resistive	Operations at Rated Load	Part Number	Cap Color
1/4 Amp	1/8 Amp	250,000	39-2	Black

Action	Total Travel	Actuating Force (oz.)	Mtg. Hole
Momentary	.042 ± .010 (1,07 ± 0,25)	+ 4 - 2	.172 (4,37) DIA.

### Normally Closed-SPST with Sealed Bushing and Button

39-352\*

.110 - .005 DIA.  
(2,79 - 0,13)

A = .165 + .035 / .015  
(4,19 + 0,89 / 0,38)

B = .125 - .007  
(3,18 - 0,18)

C = .429 - .015  
(10,90 - 0,38)

D = .100 (2,54) MAX.

E = 10 TO 40  
APPROX.

#8-40 UNS-2A  
THREAD

H = HEX MTG. NUT  
.0625 (1,59) TYP.  
THICK AND  
.218 (5,56) TYP.  
ACROSS FLATS

O-RING

E.I.A. DATE  
CODE  
LABEL\*

.819  
(20,80)  
REF.

.100 (2,54) MAX.

.250 + .010 / .005  
(6,35 + 0,25 / 0,13)

.312 - .005  
(7,92 - 0,13)  
ACROSS FLATS

Button is o-ring sealed internally.

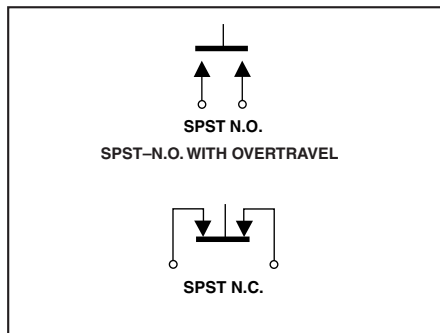
\*Label increases nominal diameter to .255 (6,48)

Rating at 115 Vac Resistive	Rating at 220 Vac Resistive	Operations at Rated Load	*Complete Part Number	Button Color
1/4 Amp	1/8 Amp	100,000	39-352 RED 39-352 BLK	Red Black

Action	Total Travel	Actuating Force (oz.)
Momentary	.042 ± .010 (0,17 ± 0,25)	8 ± 4

Pushbutton Switches

## CIRCUITRY



## SPECIFICATIONS

### Rating Criteria

**Contact Resistance:** 25 milliohms maximum on a new switch

**Voltage Breakdown:** 1,000 Vac between mutually insulated parts

**Insulation Resistance:** 1,000 megohms minimum

**Operating Temperature:** -40°C to +85°C

**Mounting Torque:** 2 inch-pounds

## Materials and Finishes

**Mounting Nut:** Brass, tin zinc

**Housing:** Aluminum, clear anodized for 39-351 and 39-352; Brass, zinc trivalent chromate-plated for others

**Button:** Thermoset plastic

**Base:** Thermoset plastic

**Shorting Bar:** Fine silver for 39-2 and 39-352; brass, gold-plated over nickel plate for 39-601; fine silver, gold-plated for others

**Terminals:** Fine silver for 39-2 and 39-352; commercial bronze with gold-plated fine silver contact surface for others

**Spring:** Tinned music wire

**O-Rings:** (39-351 and 39-352) Internal ring is silicone; external ring is buna 'N'

## ACCESSORY

**Button Cap**  
Part No. 30B1012  
For use with part numbers 39-351 and 39-352.  
(Fasten to button with Cyanoacrylate Adhesive)

## ORDERING INFORMATION

Part Number	Description
39-1	N.O., Red Button
39-2	N.C., Black Button
39-3	N.O., Black Button
39-12	N.O., Overtravel Red Button
39-24	N.O., Overtravel Black Button
39-351 RED	N.O., Sealed, Red Button
39-351 BLK	N.O., Sealed, Black Button
39-352 RED	N.C., Sealed, Red Button
39-352 BLK	N.C., Sealed, Black Button
39-601 RED	N.O., Economy, Red Button
39-601 BLK	N.O., Economy, Black Button

Accessory cap may be used with all switches shown except 39-2.

Accessory Part Number	Description
30B1012-5	Red Button Cap
30B1012-9	Black Button Cap
30B1012-8	White Button Cap