



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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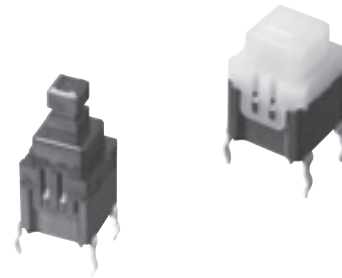
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## ESE20C/20D Momentary Push Switches

Type: **ESE20C/ESE20D**  
(H=8.9 mm)



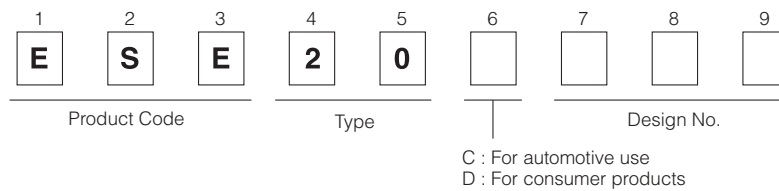
### ■ Features

- User-friendly tactile feedback when operated
- Long over-travel

### ■ Recommended Applications

- Operation switches for automobiles (switches for heater controls, overdrive, steering, etc.)
- Secondary power switches for lower voltage in consumer electronic equipment and different types of mode switches

### ■ Explanation of Part Numbers



### ■ Specifications

Rating	0.01 μA 5 V DC to 0.1 A 14 V DC (Resistive load)
Full Travel	2.5 mm
Mounting Height	8.9 mm
Poles and Throws	1-pole 1-throw
Operating Mode	Non-lock
Operating Force	2.0 N±1.0 N, 4.0 N±1.5 N
Minimum Quantity/Packing Unit	60 pcs. Polyethylene Bag (Bulk)
Quantity/Cartron	1,200 pcs.

### ■ Standard Products

Full Travel	Operating Force	Lever Height	Terminal Shape	
			Straight	Formed
2.5 mm	2.0 N±1.0 N	12.5 mm	ESE20*323	ESE20*321
		17.5 mm	ESE20*423	ESE20*421
	4.0 N±1.5 N	12.5 mm	ESE20*343	ESE20*341
		17.5 mm	ESE20*443	ESE20*441

\*C : For automotive use D : For consumer products

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.  
Should a safety concern arise regarding this product, please be sure to contact us immediately.

### ■ Dimensions in mm (not to scale)

**No. 1**

**ESE20\*4□□**  
 \*...C : For automotive use  
 D : For consumer products  
 1-pole 1-throw

ON Travel  
Full Travel

16.0±0.5  
15.0±0.5

5.7  
3.3±0.1  
1.5  
2.5±0.1  
5.5  
1.0±0.15  
8.9  
17.5

R1.6  
8.0  
0.35  
9.1±0.5  
4- $\phi$ 1.0<sup>+0.05</sup><sub>0</sub>

6.0  
8.0

PWB mounting hole for reference  
Tolerance : ±0.05 (t=1.6 mm)  
View from terminal side

5.7  
R0.5  
6.0  
0.7

a) b) c) d)

Push

Circuit diagram

8.0  
3.6  
Straight Terminal

Operating Force (N)  
4.0  
3.0  
2.0  
1.0

Type 4 N  
Type 2 N

1.0 2.0 3.0  
Travel (mm)

F-S Characteristics

**No. 2**

**ESE20\*3□□**  
 \*...C : For automotive use  
 D : For consumer products  
 1-pole 1-throw

ON Travel  
Full Travel

11.0±0.5  
10.0±0.5

5.7  
3.3  
8.9  
12.5

R1.6  
8.0  
0.35  
9.1±0.5  
4- $\phi$ 1.0<sup>+0.05</sup><sub>0</sub>

6.0  
8.0

PWB mounting hole for reference  
Tolerance : ±0.05 (t=1.6 mm)  
View from terminal side

5.7  
R0.5  
6.0  
0.7

a) b) c) d)

Push

Circuit diagram

### ■ Application Notes:

- Operating force should be applied at the center of the lever.

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