



Product Change Notice for ESE20 Series Push Switches

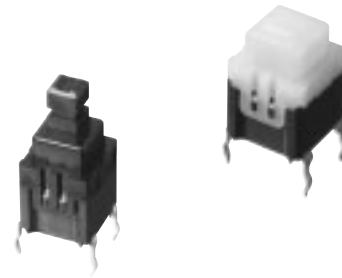
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| | |
|---------------------------|---|
| About this Notice: | As part of Panasonic's continued efforts to be price competitive in the marketplace, Panasonic shall transfer production location of our ESE20 Push switch series |
| Effective Date: | Immediately |
| Change Details: | Production has been shifted from Japan to China on February 1, 2015 |
| Affected Parts: | All ESE20 Series Part Numbers (See Attached) |
| Datasheet(s): | See Attached |
| Notes: | |

ESE20C/20D Momentary Push Switches

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



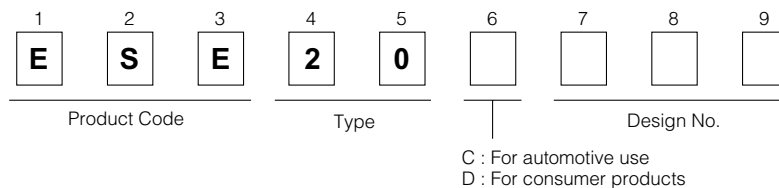
■ Features

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

■ Recommended Applications

- Operation switches for automobiles (switches for heater controls, overdrive, steering, etc.)

■ Explanation of Part Numbers



■ Specifications

| | |
|-------------------------------|---|
| Rating | 0.01 A 5 Vdc to 0.1 A 14 Vdc (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/Carton | 1200 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

■ Dimensions in mm (not to scale)

No. 1

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

Top view dimensions: 7.8, 7.9, 7.9, 7.9. Points a, b, c, d are marked.

Side view dimensions: 5.7, 3.3±0.1, 2.5, 1.5, 2.5±0.1, 1.0±0.15, 5.5, 17.5, 8.9, 3.5, 9.1±0.5, 0.35, R1.6, 4-∅1^{+0.05}₀.

Terminal view dimensions: 5.7, R0.5, 6.0, 0.7.

Terminal detail: Straight Terminal, 3.6, (8.0).

F-S Characteristics graph: Operating Force (N) vs Travel (mm). Type 4 N peaks at ~3.8 N, Type 2 N peaks at ~2.0 N.

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

Circuit diagram

No. 2

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

Top view dimensions: 7.8, 7.9, 7.9, 7.9. Points a, b, c, d are marked.

Side view dimensions: 5.7, 3.3, 11.0±0.5, 10.0±0.5, 8.9, 12.5, 3.5, 9.1±0.5, 0.35, R1.6, 4-∅1^{+0.05}₀.

Terminal view dimensions: 5.7, R0.5, 6.0, 0.7.

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

Circuit diagram

■ Application Notes:

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

Part Number

ESE-20C321

ESE-20C323

ESE-20C341

ESE-20C343

ESE-20C421

ESE-20C423

ESE-20C441

ESE-20C443

ESE-20D321

ESE-20D323

ESE-20D341

ESE-20D343

ESE-20D421

ESE-20D423

ESE-20D441

ESE-20D443