ESB33 Vertical Push Switches
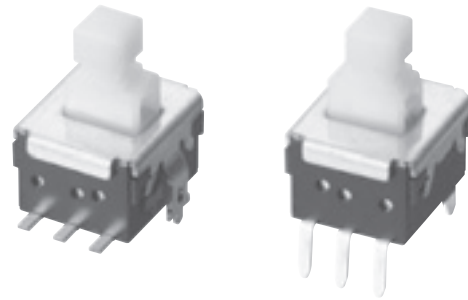
Type: **ESB33 (H=6.0 mm)**

■ Features
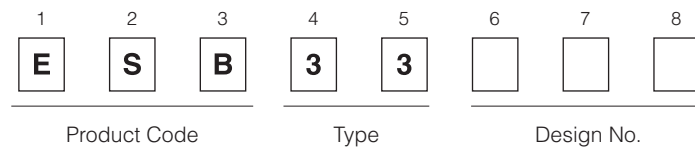● Low profile (H=6.0 mm)
● 3 N and 5 N operating force available

■ Recommended Applications
● Operation switches for automobiles (heater control switches etc.)
● Secondary power switches for lower voltage in consumer electronic equipment and different types of mode switches

■ Explanation of Part Numbers

1	2	3	4	5	6	7	8
E	S	B	3	3			

Product Code   Type   Design No.

■ Specifications

Rating	50 µA 3 V DC to 0.2 A 14 V DC (Resistive load)
Travel	Lock travel=1.5 mm Full travel=2.3 mm
Mounting Height	6.0 mm
Poles and Throws	2-poles 2-throws
Operating Mode	Self-lock, Non-lock
Switching Mode	Non-shorting
Minimum Quantity/Packing Unit	100 pcs. Polyethylene Bag (Bulk) / 300 pcs. Embossed Taping (Reel Pack)
Quantity/Carton	2,000 pcs. Polyethylene Bag (Bulk) / 1,800 pcs. Embossed Taping (Reel Pack)

■ Standard Products

Operating Mode	Terminals	Packaging	Operating Force	Part Numbers	Lever Color
PP	Wave Soldering	Polyethylene Bag (Bulk)	3.0 N±1.0 N	ESB33133	Light Yellow
NL				ESB33134	
PP	Surface Mount	Embossed Taping (Reel)	3.0 N±1.0 N	ESB33535	Light Yellow
NL				ESB33536	

Note: PP=Self-lock   NL=Non-lock

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

ESB33133
2-poles 2-throws

8.6 | 9.85

N.O. — N.O.
C — C
N.C. — N.C.

□3.3±0.05
□2.5
2.5±0.1
1.0
(6.5)
12.5
6.0
3.5
1.0
0.3
10.0
φ1.5±0.1
C0.3

C0.3
4.9
2.75
1.5±0.3 Lock travel
2.3±0.5 Full travel
3.9±0.2
7.75
1.0

1.0
1.7 +0.1/0
φ1.2 +0.1/0
2.5
2.5
10.0

PWB mounting hole for reference
(Tolerance: ±0.05)
View from terminal side

Circuit diagram

C —○ ○— N.C.
  —○ ○— N.O.
C —○ ○— N.C.
  —○ ○— N.O.

No. 2

ESB33536
2-poles 2-throws

8.6 | 9.85

N.O. — N.O.
C — C
N.C. — N.C.

C0.3
4.9
2.75
1.5±0.3 Lock travel
2.3±0.5 Full travel
(6.5)
12.5
6
0.3
1.0
12.5
φ1.5±0.1
7.75
1.0
C0.3

6-2.3
24-R0.4
1.0
2.5
φ1.7
6-1.6
2.5
8.7

PWB mounting hole for reference
Tolerance : ±0.05 (t=1.6 mm)

Circuit diagram

C —○ ○— N.C.
  —○ ○— N.O.
C —○ ○— N.C.
  —○ ○— N.O.

■ Packaging Specifications
Standard Reel Dimensions in mm (not to scale)

Taping Reel

Embossed Carrier Taping

φ382.0±2.0
25.0

P=20±0.1
4±0.1
2±0.1
Drawing direction
φ1.5 +0.1/0.2
1.75±0.1
Cover tape
TOP
END
Carrier tape
24±0.3
21.3±0.5

Non-packed portion
(160 mm min.)
Packed portion
Non-packed portion
(100 mm min.)
Leading portion 400 mm min.

■ Application Notes:
● Operating force should be applied at the center of the lever.

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