

## Print and SMD Switch 6x6



LSH: Gullwing, variable height



LPH: Through hole, variable height



LPS: Through hole, square



LPV: Through hole, angled



### Description

- Switches are possible with different heights
- Design 6x6 mm
- Through hole or SMD mounting
- Solder terminals

### Unique Selling Proposition

- Reliable tactile feedback on input
- Simple assembly
- Long life time

### Weblinks

[html-datasheet](#), [General Product Information](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [CAD-Drawings](#), [Product News](#), [Detailed request for product](#)

### Technical Data

#### Electrical Data

|                    |                                                          |
|--------------------|----------------------------------------------------------|
| Switching Voltage  | 12 VDC                                                   |
| Switching Current  | 50 mA                                                    |
| Lifetime           | > 10 <sup>8</sup> actuations at Rated Switching Capacity |
| Contact Resistance | max. 100 mΩ<br>max. 100 mΩ after lifetime                |
| Duration of Bounce | typ. 0.1 ms                                              |

#### Mechanical Data

|                   |                              |
|-------------------|------------------------------|
| Actuating Force   | 1.6 ± 0.5 N                  |
| Actuating Travel  | 0.25 + 0.2 / -0.1 mm         |
| End Stop Strength | 50 N / 3 s                   |
| Lifetime          | > 10 <sup>8</sup> actuations |

#### Climatical Data

|                       |                 |
|-----------------------|-----------------|
| Operating Temperature | -20 °C to 70 °C |
| Storage Temperature   | -30 °C to 85 °C |
| IP-Protection         | IP 40           |

#### Soldering Data

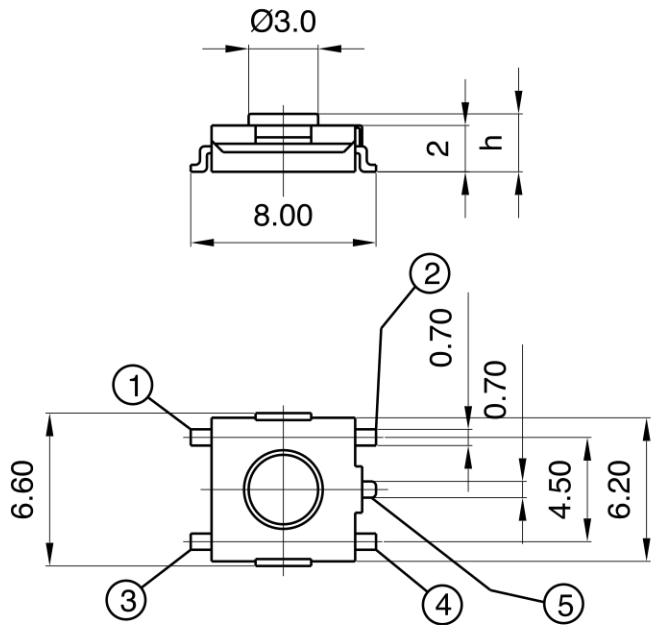
|                              |                                          |
|------------------------------|------------------------------------------|
| Soldering Methods            | Reflow                                   |
| Solderability                | 245 °C / 5 sec (IEC 60068-2-58 Test Td)  |
| Resistance to Soldering Heat | 260 °C / 10 sec (IEC 60068-2-58 Test Td) |

#### Material

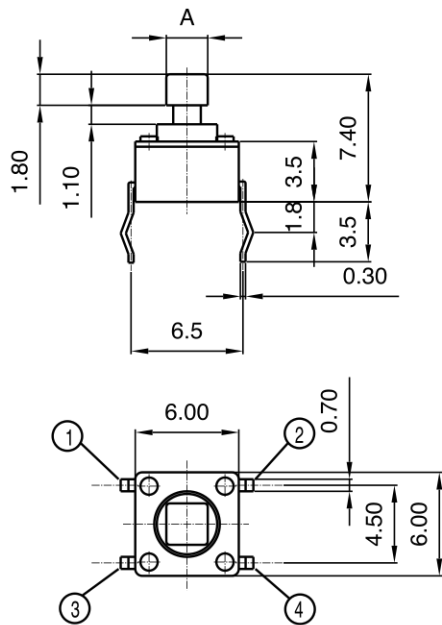
|           |                  |
|-----------|------------------|
| Terminals | CuZn37 0.7 µm Ag |
| Socket    | UL 94V-0         |
| Actuator  | UL 94V-0         |

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in [General Product Information](#)

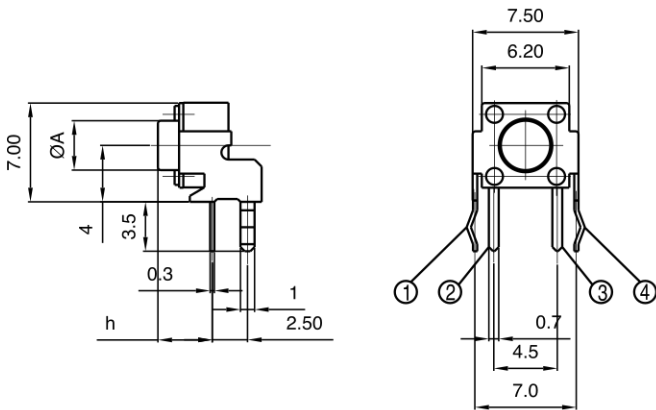
Dimension [mm]  
LSG Gullwing basic module



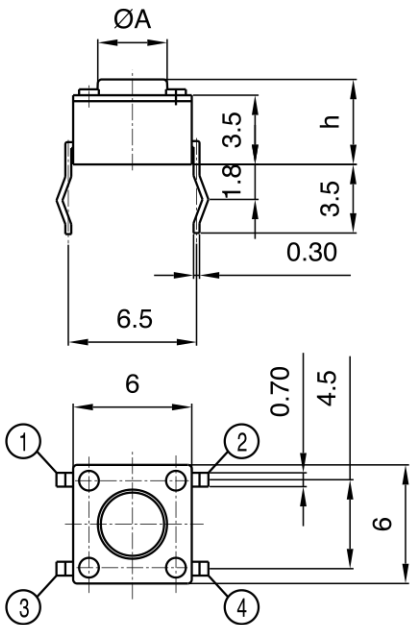
LPS PCB basic module



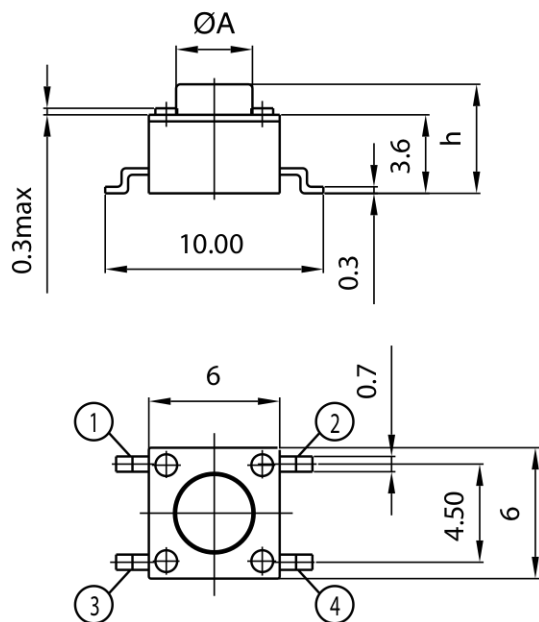
LPV PCB basic module



LPH PCB basic module

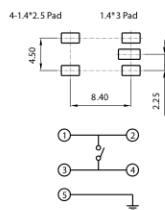


LSH Gullwing basic module

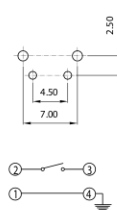


Drilling diagrams

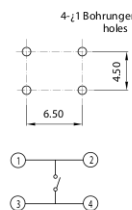
LSG: Gullwing



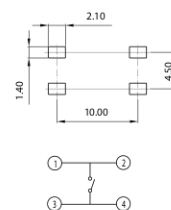
LPV PCB lead



LPH / LPS PCB lead



LSH Gullwing lead



All Variants

| Type | Terminal     | Type                     | Actuator $\varnothing$ A / Overall height | Packaging                          | Order Number |
|------|--------------|--------------------------|-------------------------------------------|------------------------------------|--------------|
| LPH  | Through hole | Height variable          | 12.50 mm                                  | loose in boxes(2000 pcs.)          | 1301.9307    |
| LPH  | Through hole | Height variable          | 4.30 mm                                   | loose in boxes(2000 pcs.)          | 1301.9301    |
| LPH  | Through hole | Height variable          | 5.00 mm                                   | loose in boxes(2000 pcs.)          | 1301.9302    |
| LPH  | Through hole | Height variable          | 7.00 mm                                   | loose in boxes(2000 pcs.)          | 1301.9303    |
| LPH  | Through hole | Height variable          | 7.30 mm                                   | loose in boxes(2000 pcs.)          | 1301.9304    |
| LPH  | Through hole | Height variable          | 8.00 mm                                   | loose in boxes(2000 pcs.)          | 1301.9305    |
| LPH  | Through hole | Height variable          | 9.50 mm                                   | loose in boxes(2000 pcs.)          | 1301.9306    |
| LPS  | Through hole | square 2.40 mm x 2.40 mm | -                                         | loose in boxes(2000 pcs.)          | 1301.9308    |
| LPS  | Through hole | square 2.80 mm x 2.80 mm | -                                         | loose in boxes(2000 pcs.)          | 1301.9309    |
| LPV  | Through hole | angled                   | 11.35 mm                                  | loose in boxes(2000 pcs.)          | 1301.9502    |
| LPV  | Through hole | angled                   | 3.85 mm                                   | loose in boxes(2000 pcs.)          | 1301.9501    |
| LPV  | Through hole | angled                   | 6.15 mm                                   | loose in boxes(2000 pcs.)          | 1301.9503    |
| LSG  | Gullwing     | -                        | 2.50 mm                                   | Blister Tape 33 cm Reel(1500 pcs.) | 1301.9312.25 |
| LSG  | Gullwing     | -                        | 2.50 mm                                   | loose in boxes(2000 pcs.)          | 1301.9312    |
| LSG  | Gullwing     | -                        | 3.10 mm                                   | Blister Tape 33 cm Reel(1500 pcs.) | 1301.9313.25 |
| LSG  | Gullwing     | -                        | 3.10 mm                                   | loose in boxes(2000 pcs.)          | 1301.9313    |
| LSH  | Gullwing     | Height variable          | 12.50 mm                                  | Blister Tape 33 cm Reel(250 pcs.)  | 1301.9320.24 |
| LSH  | Gullwing     | Height variable          | 12.50 mm                                  | loose in boxes(2000 pcs.)          | 1301.9320    |
| LSH  | Gullwing     | Height variable          | 4.30 mm                                   | Blister Tape 33 cm Reel(1000 pcs.) | 1301.9314.24 |
| LSH  | Gullwing     | Height variable          | 4.30 mm                                   | loose in boxes(2000 pcs.)          | 1301.9314    |

| Type | Terminal | Type            | Actuator $\varnothing$ A / Overall height | Packaging                          | Order Number |
|------|----------|-----------------|-------------------------------------------|------------------------------------|--------------|
| LSH  | Gullwing | Height variable | 5.00 mm                                   | Blister Tape 33 cm Reel(1000 pcs.) | 1301.9315.24 |
| LSH  | Gullwing | Height variable | 5.00 mm                                   | loose in boxes(2000 pcs.)          | 1301.9315    |
| LSH  | Gullwing | Height variable | 7.00 mm                                   | Blister Tape 33 cm Reel(750 pcs.)  | 1301.9316.24 |
| LSH  | Gullwing | Height variable | 7.00 mm                                   | loose in boxes(2000 pcs.)          | 1301.9316    |
| LSH  | Gullwing | Height variable | 7.30 mm                                   | Blister Tape 33 cm Reel(750 pcs.)  | 1301.9317.24 |
| LSH  | Gullwing | Height variable | 7.30 mm                                   | loose in boxes(2000 pcs.)          | 1301.9317    |
| LSH  | Gullwing | Height variable | 8.00 mm                                   | Blister Tape 33 cm Reel(500 pcs.)  | 1301.9318.24 |
| LSH  | Gullwing | Height variable | 8.00 mm                                   | loose in boxes(2000 pcs.)          | 1301.9318    |
| LSH  | Gullwing | Height variable | 9.50 mm                                   | Blister Tape 33 cm Reel(400 pcs.)  | 1301.9319.24 |
| LSH  | Gullwing | Height variable | 9.50 mm                                   | loose in boxes(2000 pcs.)          | 1301.9319    |

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