

# KMR 4 Series

## Microminiature SMT Top Actuated



### Features/Benefits

- Long Life version
- 4 actuation forces
- Optional ground pin
- Ultra low current capabilities
- Excellent tactile feel

### Typical Applications

- Automotive
- Cellular phones
- Industrial electronics
- Medical equipment

### Specification

FUNCTION: momentary action  
CONTACT ARRANGEMENT: 1 make contact = SPST, N.O.  
TERMINALS: Gullwing type for SMT

### Mechanical

| Type G and NG<br>(except gold<br>version G only)<br>See description<br>below | Operating<br>force<br>N (grs) | Operating<br>life<br>(cycles) | Travel (mm)   |
|------------------------------------------------------------------------------|-------------------------------|-------------------------------|---------------|
| KMR421 LFS                                                                   | 2.0 (200) ± 0.50              | 200 000                       | 0.25 mm ± 0.1 |
| KMR431 LFS                                                                   | 3.0 (300) ± 0.75              | 150 000                       | 0.30 mm ± 0.1 |
| KMR431 ULC LFS                                                               | 3.0 (300) ± 0.75              | 150 000                       | 0.30 mm ± 0.1 |
| KMR432 LFS                                                                   | 3.0 (300) ± 0.75              | 300 000                       | 0.30 mm ± 0.1 |
| KMR432 ULC LFS                                                               | 3.0 (300) ± 0.75              | 300 000                       | 0.30 mm ± 0.1 |
| KMR441 LFS                                                                   | 4.0 (400) ± 1.00              | 100 000                       | 0.35 mm ± 0.1 |
| KMR441 ULC LFS                                                               | 4.0 (400) ± 1.00              | 100 000                       | 0.35 mm ± 0.1 |
| KMR442 LFS                                                                   | 4.0 (400) ± 1.00              | 200 000                       | 0.35 mm ± 0.1 |
| KMR442 ULC LFS                                                               | 4.0 (400) ± 1.00              | 200 000                       | 0.35 mm ± 0.1 |

TACTILE FEELING: for KMR 4 series: ≥ 25%

### Electrical

|                        | Silver     | Gold    |
|------------------------|------------|---------|
| MAXIMUM POWER:         | 1 VA       | 0.2 VA  |
| MAXIMUM VOLTAGE:       | 32 VDC     | 32 VDC  |
| MINIMUM VOLTAGE:       | 20 mVDC    | 20 mVDC |
| MAXIMUM CURRENT:       | 50 mA      | 10 mA   |
| MINIMUM CURRENT:       | 1 mA*      | 1 mA*   |
| DIELECTRIC STRENGTH:   | ≥ 250 Vrms |         |
| CONTACT RESISTANCE:    | ≤ 100 mΩ   |         |
| INSULATION RESISTANCE: | ≥ 1 GΩ     |         |
| BOUNCE TIME:           | ≤ 3 ms     |         |

\*For ULC version minimum current is 1μA at 1.8 VDC

### Environmental

|                        | Silver        | Gold           |
|------------------------|---------------|----------------|
| OPERATING TEMPERATURE: | -40°C to 85°C | -40°C to 125°C |
| STORAGE TEMPERATURE:   | -55°C to 85°C | -55°C to 125°C |

### Process

Infrared Reflow Soldering in accordance with IEC61760-1

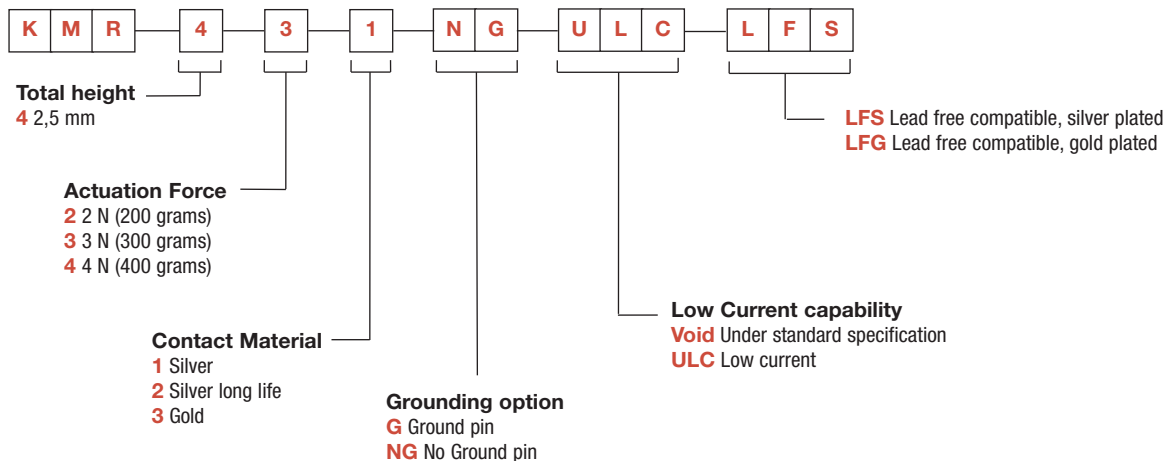
### Packaging

In reels of 6,000 pieces for KMR 4  
External diameter 330 mm ± 2 mm

**NOTE:** Specifications listed above are for switches with standard options.  
For information on specific and custom switches, consult Customer Service Center.

### Part Number Description

For any part number different from those listed above, please consult your local representative.



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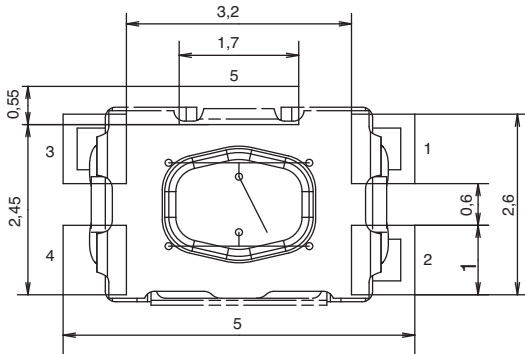
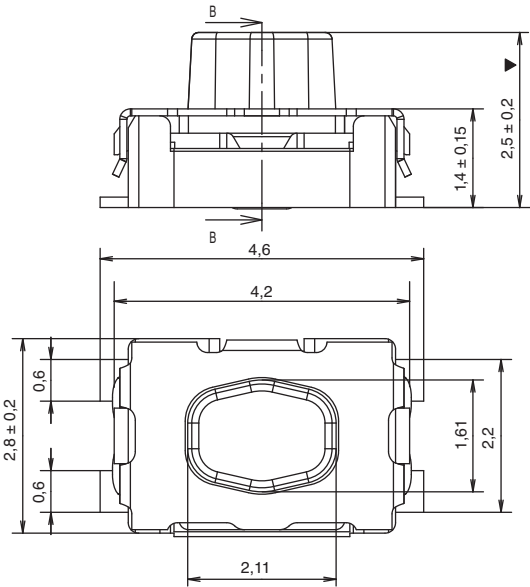
## Microminiature Tact Switch for SMT

KMR 4 Series - 2.5 mm height

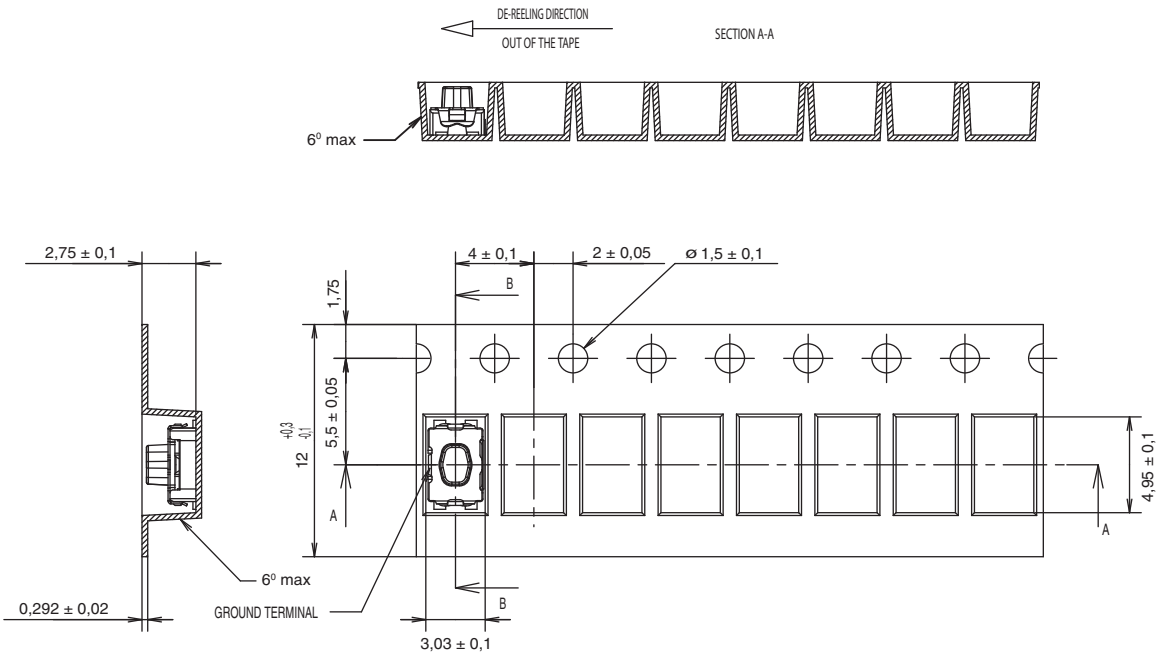
PCB layout shown with ground pin option

Tactile Switches

B



### TAPE & REEL



Dimensions are shown: Inch (mm)  
Specifications and dimensions subject to change