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

<table>
<thead>
<tr>
<th>Type G and NG (except gold version G only)</th>
<th>Operating force N (grs)</th>
<th>Operating life (cycles)</th>
<th>Travel (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>KMR421 LFS</td>
<td>2.0 (200) ± 0.50</td>
<td>200 000</td>
<td>0.25 mm ± 0.1</td>
</tr>
<tr>
<td>KMR431 LFS</td>
<td>3.0 (300) ± 0.75</td>
<td>150 000</td>
<td>0.30 mm ± 0.1</td>
</tr>
<tr>
<td>KMR432 ULC LFS</td>
<td>3.0 (300) ± 0.75</td>
<td>300 000</td>
<td>0.30 mm ± 0.1</td>
</tr>
<tr>
<td>KMR433 ULFS</td>
<td>3.0 (300) ± 0.75</td>
<td>300 000</td>
<td>0.30 mm ± 0.1</td>
</tr>
<tr>
<td>KMR432 ULC LFS</td>
<td>4.0 (400) ± 1.00</td>
<td>100 000</td>
<td>0.35 mm ± 0.1</td>
</tr>
<tr>
<td>KMR441 LFS</td>
<td>4.0 (400) ± 1.00</td>
<td>100 000</td>
<td>0.35 mm ± 0.1</td>
</tr>
<tr>
<td>KMR442 LFS</td>
<td>4.0 (400) ± 1.00</td>
<td>200 000</td>
<td>0.35 mm ± 0.1</td>
</tr>
</tbody>
</table>

TACTILE FEELING: for KMR 4 series: ≥ 25%

Electrical

<table>
<thead>
<tr>
<th></th>
<th>Silver</th>
<th>Gold</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAXIMUM POWER:</td>
<td>1 VA</td>
<td>0.2 VA</td>
</tr>
<tr>
<td>MAXIMUM VOLTAGE:</td>
<td>32 VDC</td>
<td>32 VDC</td>
</tr>
<tr>
<td>MINIMUM VOLTAGE:</td>
<td>20 mVDC</td>
<td>20 mVDC</td>
</tr>
<tr>
<td>MAXIMUM CURRENT:</td>
<td>50 mA</td>
<td>10 mA</td>
</tr>
<tr>
<td>MINIMUM CURRENT:</td>
<td>1 mA*</td>
<td>1 mA*</td>
</tr>
<tr>
<td>DIELECTRIC STRENGTH:</td>
<td>≥ 250 Vrms</td>
<td></td>
</tr>
<tr>
<td>CONTACT RESISTANCE:</td>
<td>≤ 100 mΩ</td>
<td></td>
</tr>
<tr>
<td>INSULATION RESISTANCE:</td>
<td>≥ 1 GΩ</td>
<td></td>
</tr>
<tr>
<td>BOUNCE TIME:</td>
<td>≤ 3 ms</td>
<td></td>
</tr>
</tbody>
</table>

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

Environmental

<table>
<thead>
<tr>
<th></th>
<th>Silver</th>
<th>Gold</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPERATING TEMPERATURE:</td>
<td>-40°C to 85°C</td>
<td>-40°C to 125°C</td>
</tr>
<tr>
<td>STORAGE TEMPERATURE:</td>
<td>-55°C to 85°C</td>
<td>-55°C to 125°C</td>
</tr>
</tbody>
</table>

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.

**KMR**
- **4** Total height
  - 2.5 mm

**Actuation Force**
- **2 2 N (200 grams)**
- **3 3 N (300 grams)**
- **4 4 N (400 grams)**

**Contact Material**
- **1 Silver**
- **2 Silver long life**
- **3 Gold**

**Grounding option**
- **G Ground pin**
- **NG No Ground pin**

**LFS Lead free compatible, silver plated**
**LFG Lead free compatible, gold plated**

**Low Current capability**
- **Void Under standard specification**
- **ULC Low current**

Dimensions are shown: mm
Specifications and dimensions subject to change

www.ck-components.com
KMR 4 Series
Microminiature Tact Switch for SMT

KMR 4 Series - 2.5 mm height

PCB layout shown with ground pin option

Tape & Reel

Dimensions shown: mm
Specifications and dimensions subject to change

First Angle Projection

www.ck-components.com