KMR8 Series

Micro Miniature Tactile Switch for SMT 4.6 x 2.8 mm, with 1.9 mm Height Hard Actuator

Description

The KMR8 series microminiature SMT top actuated is a hard actuator switch with 3 actuation forces. It gives users an excellent tactile feeling and its durability makes it ideal for industrial, medical and automotive applications that must endure harsh environments.

Features & Benefits

- Small footprint
- 3 actuation forces
- Excellent tactile feel
- Hard actuator
- IP40 for switches with Ground Pin ("G"), IP67 for switches without Ground Pin ("NG")

Applications

- Transportation
- Mobile phones
- Industrial electronics
- Medical equipment

Specifications

Function	Momentary action
Contact Arrangement	1 make contact = SPST, N.O.
Terminals	Gullwing type for SMT
Tactile Feeling	KMR 8 series with actuation force in 2N - 3N - 4N: ≥ 30% KMR 8 series with actuation force in 1.2N: ≥ 20%
Packaging	In reels of 7,000 pieces. External diameter 330 mm ± 2mm

Electrical Characteristics

	Silver
Max. Power	1 VA
Max. Voltage	32 VDC
Min. Voltage	20 mVDC
Max. Current	50 mA
Min. Current	1 mA[1]
Dielectric Strength	≥ 250 Vrms
Contact Resistance	≤ 100 mΩ
Insulation Resistance	≥ 1 GΩ
Bounce Time	≤ 3 ms

Environmental Characteristics

Operating Temperature	-40˚C to 85˚C	-40˚C to 125˚C
Storage Temperature	-55˚C to 85˚C	-55˚C to 125˚C

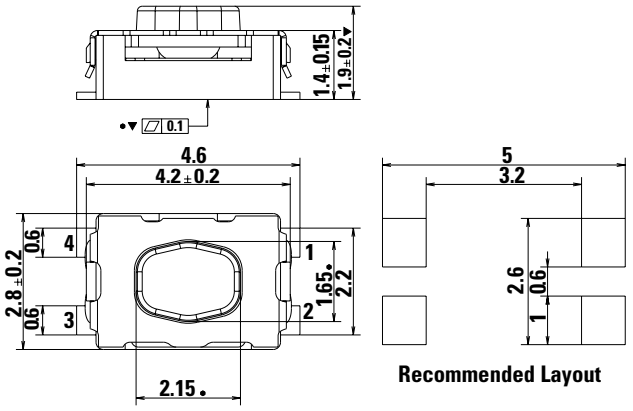
Process

Soldering	Lead free reflow soldering process in accordance with IEC 61760-1.

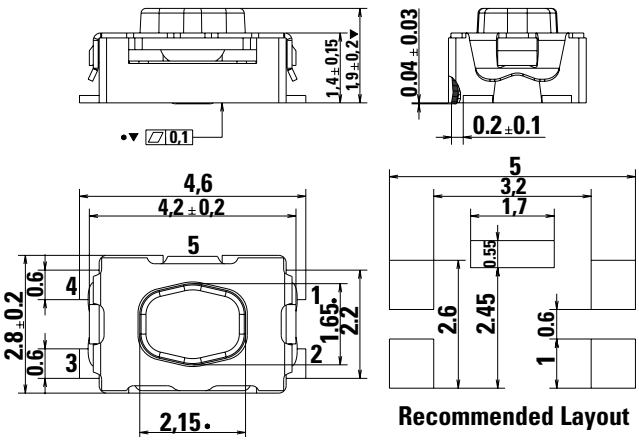
Notes
1. For ULC version minimum current is 1µA at 1.8 VDC
2. Specifications listed above are for switches with standard options.
For information on specific and custom switches, consult Customer Service Center.

Dimensions (mm)

NG - No Ground Pin



G - Ground Pin



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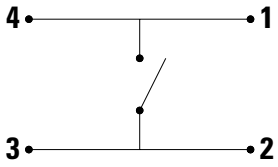
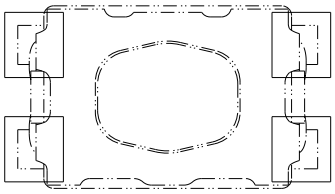
Mechanical Characteristics

Type G and NG	Operation Force N (grs)	Operating Life (cycles)	Travel (mm)
KMR811G LFS	1.2 (120) ± 0.30	200,000	0.20 mm ± 0.1
KMR821G LFS	2.0 (200) ± 0.50		0.25 mm ± 0.1
KMR831G LFS KMR831NG ULC LFS	3.0 (300) ± 0.75	150,000	0.25 mm ± 0.1

NG Terminations (mm)

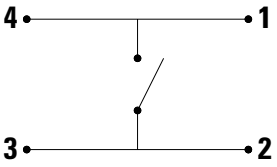
Electrical Diagram

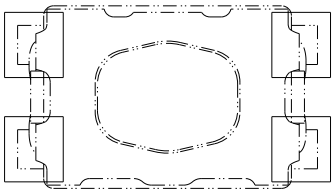




G Terminations (mm)

Electrical Diagram





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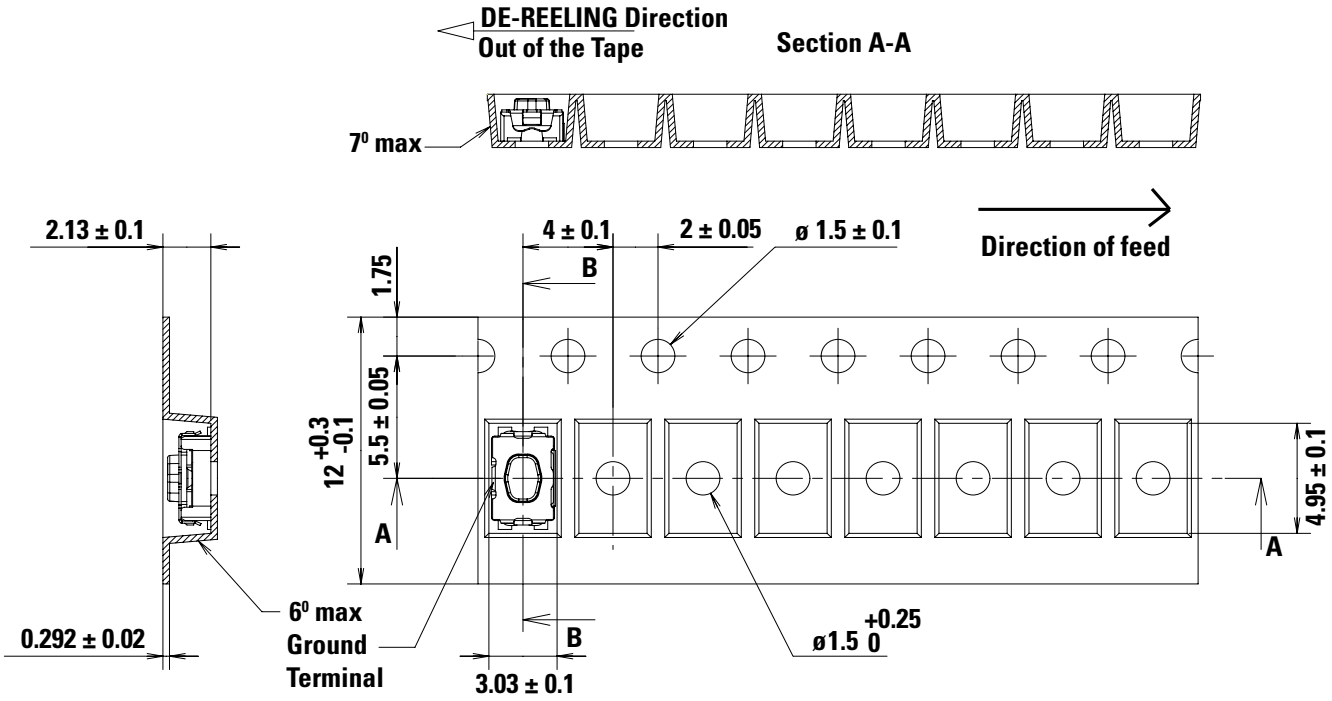
Tape & Reel



Ordering Number

Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category. However, please note that not all combinations of these options are feasible. For any part number different from those listed below, please consult your local representative

KMR - 8 - x - 1 - x - x - x

Total Height
8: 1.9 mm

Actuation Force
1: 1.2 N (120 grams)
2: 2 N (200 grams)
3: 3 N (300 grams)

Contact Material
1: Silver

Grounding Option
G: Ground Pin
NG: No Ground Pin

Low Current capability
Void: Under standard specification
ULC: Low current

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

Liability Limitation

This datasheet does not provide enough information for applications that require a certain level of quality or safety such as automotive, medical systems, or safety equipement. Please contact customer service for the contractual specification package.