KSC2 TE Series

Tireless Endurance, Sealed Tactile Switch for SMT 6.2 x 6.3 mm, with 3.5mm Height Soft Actuator



Specifications

Function	Normally open
Contact Type	SPST NO
Terminals	J bend for SMT
Contact Material	Silver plated
Sealing	IP67

Electrical Characteristics

Maximum Power	0.03 VA
Min. / Max. Voltage	1V - 24V
Min. / Max. Current	1 - 3 mA
Dielectric Strength	250 Vrms
Contact Resistance	≤ 100 mΩ
Insulation Resistance	(100 V): 1000 MΩ
Bounce Time	≤ 1 ms

Environmental Characteristics

Operating Temperature	-40°C to 90°C
Storage Temperature	-55°C to 90°C

Specifications

Packaging	In reels of 2,000 pieces Dimensions according to EIA 481 External diameter 330 ± 2 mm

Description

KSC2 TE tireless endurance tactile switch is a new KSC2 configuration with J leads, a soft actuator and a renewed combination of dome and support, upgrading the lifetime up to 10 million cycles. With a size of 6.2 x 6.3 mm and actuation forces at 1.6N, 2.8N and 4N, the switch is perfect for demanding applications such as applications in the industrial segment.

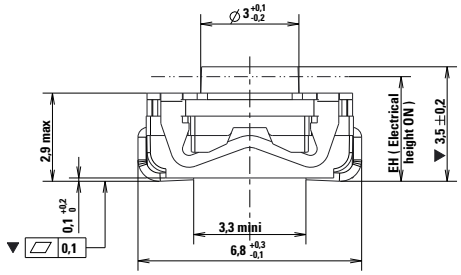
Features & Benefits

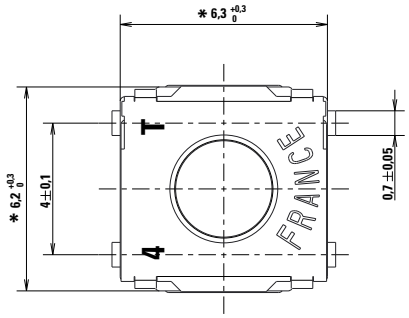
- Electrical Height for easier integration due to more precise tolerances
- New combination of dome/ support
- Silicone actuator 3.5mm high
- J terminations
- Tape & reel
- IP67

Applications

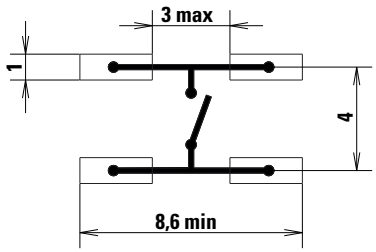
- Elevator
- Game controllers/ Drones
- Industrial applications
- Medical applications

Dimensions





J Terminations



LAYOUT - PAD
SCALE : 5

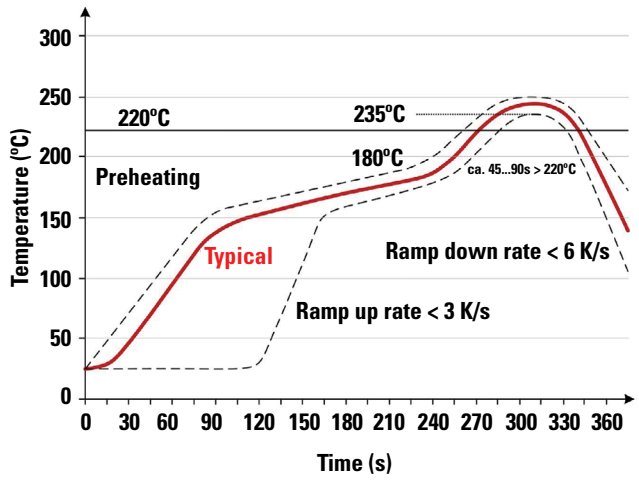
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Soldering Profile

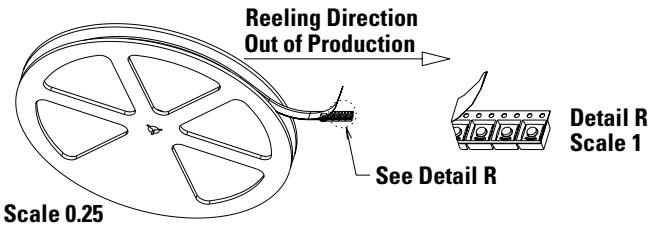


Note: Up to 2 reflow cycles in accordance with the above temperature profile

Soldering process: Depending on the application, this component is suited to the following methods:

- Terminals being silver or gold plated over a nickel barrier, the use of slightly activated flux is suitable.
- Lead free soldering process in accordance with the definition on the left.

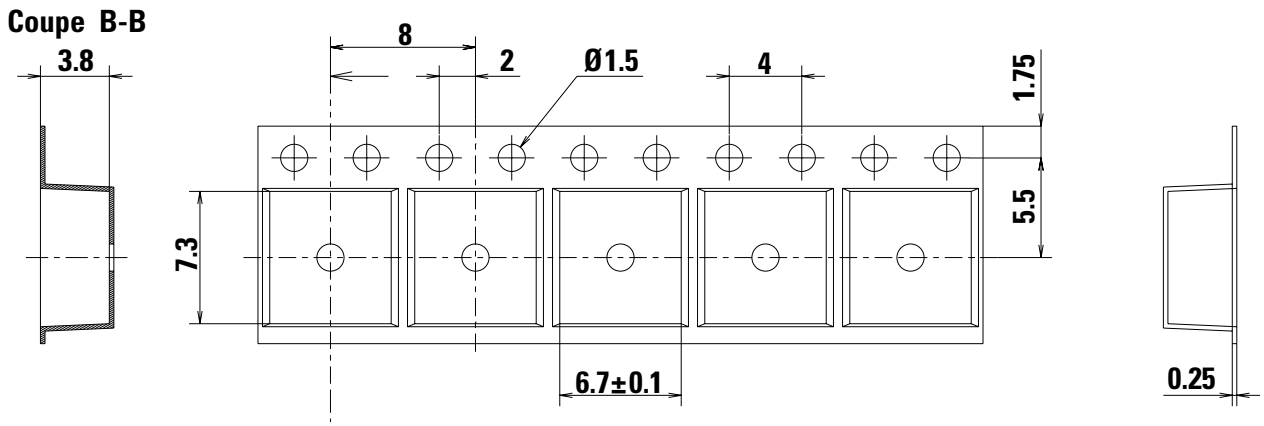
Tape & Reel



Packaging Details

Type	Tape & reel
Number of Parts in Packaging	2,000
Other Information	Tape and reel per EIA 481
Transport Conditions	According to specification NF H00-060

Packaging (mm)



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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 and place it in the appropriate box. For any part number different from those listed above, please consult your local representative.

KSC2 - TE - x - 1 - J - LFS

Force
0: 1.60 N
3: 2.80 N
4: 4.00 N

Contact Material
1: Silver

Termination
J: J Bend

LFS: Lead free compatible, silver plated

Mechanical Characteristics

Littelfuse Orderable Part Number	Description	Contact & Terminals Plating	Terminals	Operating Force Fa (Newtons)	Tactile ratio (min)	Operating Life (operations)	Electrical Travel (mm)	Electrical Height from PCB (mm)
Y29A11332FP	KSC2TE01J LFS	Silver	J	1.6±0.6	25%	10,000,000	0.25	3.25±0.2
Y29A41332FP	KSC2TE31J LFS	Silver	J	2.8±0.7	25%	5,000,000	0.3	3.25±0.2
Y29AE1332FP	KSC2TE41J LFS	Silver	J	4±1	25%	5,000,000	0.35	3.2±0.2

Note: Life time under electrical load (24 V, 1.3 mA)

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.

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