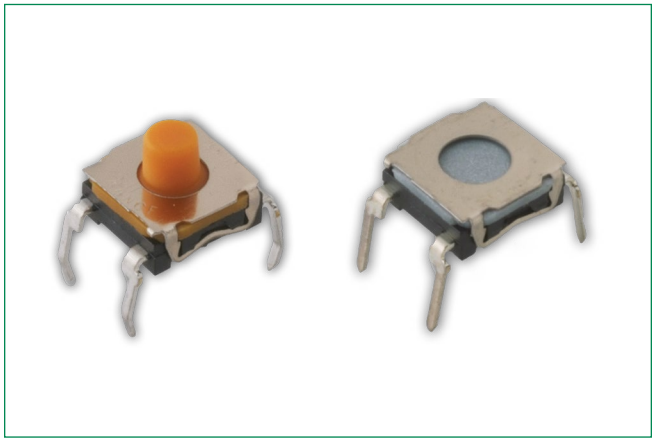
KSF & KSFI Series

Sealed Tactile Switch 7.4 x 7.4 mm with THT pins



Description

The KSF series soft actuated tactile switch features a top and side actuated design with a sealed front end. The switch's inherently small size and flexibility make it ideal for low profile keyboards, automotive interfaces and industrial control applications.

Features & Benefits

- Soft actuated switch
- Top and side actuated
- Sealed front end

Applications

- Low profile keyboards
- Industrial control
- Automotive interfaces

Specifications

Function	Momentary action
Contact Type	1 make contact = SPST, N.O.
Terminals	THT pins
Sealing	IP60 or IP67

Electrical Characteristics

	Silver	Gold
Maximum Power	1 VA	0.2 VA
Min. / Max. Voltage	1 - 32VDC	
Min. / Max. Current	1 - 50 mA	1 - 10 mA
Dielectric Strength	(50 Hz, 1 min.) > 250 Vrms	
Contact Resistance	< 100 mΩ	
Insulation Resistance	(100 V, initial stage): > 10^9 Ω	
Bounce Time	< 1 ms	
Overload Resistance	40N, 1 time	

Environmental Characteristics

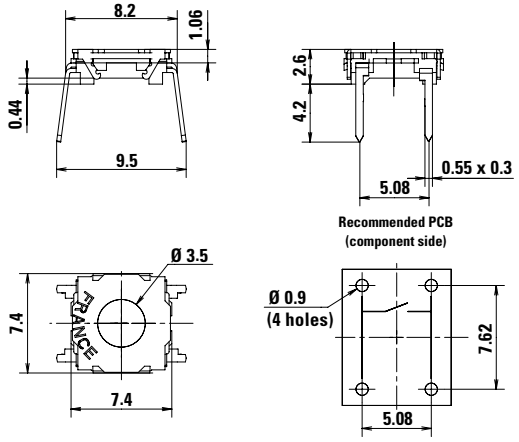
	Silver	Gold
Operating Temperature	-40˚C to 85˚C	-40˚C to 125˚C
Storage Temperature	-55˚C to 85˚C	-40˚C to 125˚C

Process

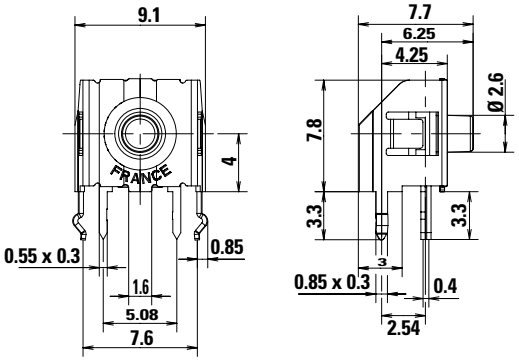
Soldering	Lead free wave soldering process
Packaging	In boxes of 250 pieces (V type) or 500 types (M type)

Dimensions (mm)

KSF



KSFI 0V



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Specifications are subject to change without notice.
Revised: MI 10/26/26

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Sealed Tactile Switch 7.4 x 7.4 mm with THT pins

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. However, please note that all the combinations of these options are not feasible. For any part number different from those listed above, please consult your local representative.

KS - x - 0 - x - x - x - x - LFx

Type
F: Flat membrane
FI: Soft actuator

Insertion
M: Manual (bulk packaging)
V: Vertical (bulk packaging)[2]

Operating Force
2: 1.5N[1]
3: 1.9N[1]
4: 3N[1]
5: 5.2N[1]
9: 3.4N[1]

Contact Material
1: Silver
3: Gold

Sealing
1: IP60
2: IP67

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

Notes:
1. Refer to the table below for exact operating force values
2. Products must be checked according to customers soldering parameters especially in terms of flux resistance

Mechanical Characteristics

KSF MKI

Supply Status	LITTELFUSE Orderable Part Number	Description	Contact & Terminals Plating	Operating Force Fa (Newtons)	Tactile ratio (Min)	Operating Life (Operations)	Electrical Travel (mm)	Terminals	Actuator	Sealing
✓	Y33R21155FP	KSF0M211 LFS	Silver	1.5±0.5	Min 17,5%	100,000	0.25±0.1	M: Thru-hole	Flat Membrane	IP 60
✓	Y33R31155FP	KSF0M311 LFS	Silver	1.9±0.5	Min 14,5%	500,000	0.25±0.1	M: Thru-hole	Flat Membrane	IP 60
✓	Y33R33155FP	KSF0M331 LFG	Gold	1.9±0.5	Min 14,5%	100,000	0.25±0.1	M: Thru-hole	Flat Membrane	IP 60
✓	Y33R41155FP	KSF0M411 LFS	Silver	3±0.75	Min 21%	100,000	0.25±0.1	M: Thru-hole	Flat Membrane	IP 60
✓	Y33R43155FP	KSF0M431 LFG	Gold	3±0.75	Min 21%	100,000	0.25±0.1	M: Thru-hole	Flat Membrane	IP 60
✓	Y33R51155FP	KSF0M511 LFS	Silver	5.2±1	Min 24%	100,000	0.25±0.1	M: Thru-hole	Flat Membrane	IP 60
✓	Y33R53155FP	KSF0M531 LFG	Gold	5.2±1	Min 24%	100,000	0.25±0.1	M: Thru-hole	Flat Membrane	IP 60
✓	Y33R91155FP	KSF0M911 LFS	Silver	3.1±0.8	Min 25,5%	500,000	0.25±0.1	M: Thru-hole	Flat Membrane	IP 60

KSFI MKI

Supply Status	LITTELFUSE Orderable Part Number	Description	Contact & Terminals Plating	Operating Force Fa (Newtons)	Tactile ratio (Min)	Operating Life (Operations)	Electrical Travel (mm)	Terminals	Actuator	Sealing
✓	Y33R911CCFP	KSFI0V911 70SH CONNEX 3,3 LFS	Silver	3.35±0.75	Min 14,5%	100,000	0.65±0.25	V: Vertical	Flat Membrane	IP 60

KSF MKII

Supply Status	LITTELFUSE Orderable Part Number	Description	Contact & Terminals Plating	Operating Force Fa (Newtons)	Tactile ratio (Min)	Operating Life (Operations)	Electrical Travel (mm)	Terminals	Actuator	Sealing
✓	Y33A21255FP	KSF0M212 LFS	Silver	1.6±0.4	Min 17,5%	300,000	0.25±0.1	M: Thru-hole	Flat Membrane	IP 67

KSFI MKII

Supply Status	LITTELFUSE Orderable Part Number	Description	Contact & Terminals Plating	Operating Force Fa (Newtons)	Tactile ratio (Min)	Operating Life (Operations)	Electrical Travel (mm)	Terminals	Actuator	Sealing
✓	Y33A412A5FP	KSFI0M412 50 SH LFS	Silver	3±0.75	Min 15%	100,000	1.1±0.25	M: Thru-hole	Soft actuator	IP 67
✓	Y33A412C5FP	KSFI0M412 70 SH LFS	Silver	3.2±0.8	Min 5%	100,000	0.75±0.25	M: Thru-hole	Soft actuator	IP 67

Notes: Supply status: ✓: Available for ordering.

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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