

## Reed Sensors for SMD Mounting

[查询"MK15-B-1"供应商](#)



## APPLICATIONS

- Electronic PCB's where all components are surface mounted
- Telecommunication applications Hook switch in mobile and hard-wired phones
- Switching element in microphones

## DESCRIPTION

MK15 are magnetically operated Reed proximity switches for SMD mounting.

- **Lead design 1:** Flat, straight leads for PCB slot mounting.
- **Lead design 2:** Flat, bent SMD leads.

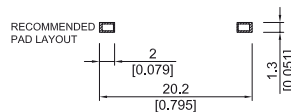
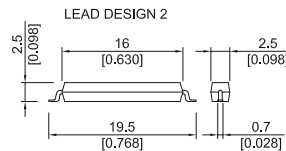
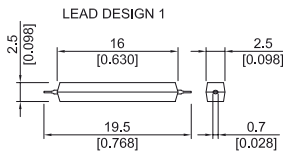
The sensors are supplied taped & reeled according to IEC 286/part 3 suitable for auto-placement. The special features of this series are the small dimensions of only 19.5 x 2.5 x 2.5mm and the simple internal structure (low-cost version).

## FEATURES

- Excellent for low power operations
- High power switches available
- Six operate sensitivities available
- Tape and Reel available
- No external power required for sensor operation
- UL approved

## DIMENSIONS

All dimensions in mm [inch]



## MAGNETIC SENSITIVITY

Sensitivity class	Pull In At Range
B	10 - 15
C	15 - 20
D	20 - 25
E	25 - 30
F	30 - 35
G	35 - 40

### Part Number Example

MK15 - B - 1

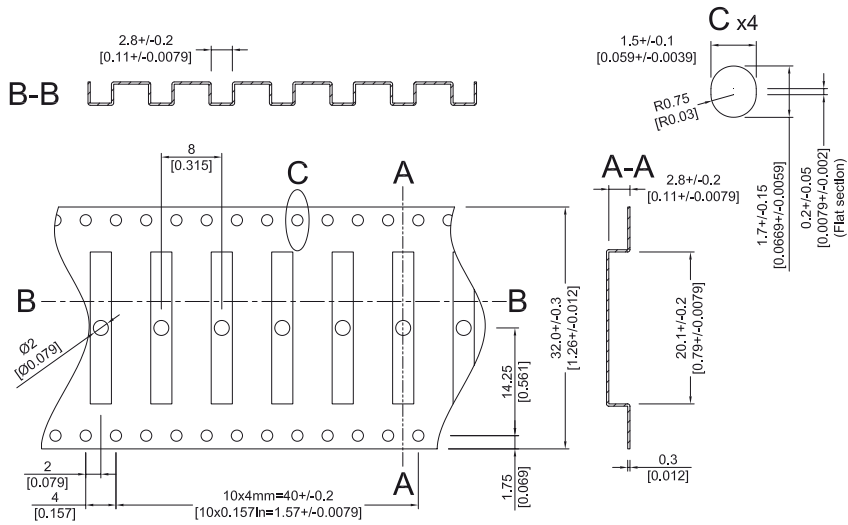
**B** is the magnetic sensitivity  
**1** is the lead design

## ORDER INFORMATION

Series	Magnetic Sensitivity	Lead Design
<b>MK15 -</b>	<b>X -</b>	<b>X</b>
<b>Options</b>	B, C, D, E, F, G	1.2

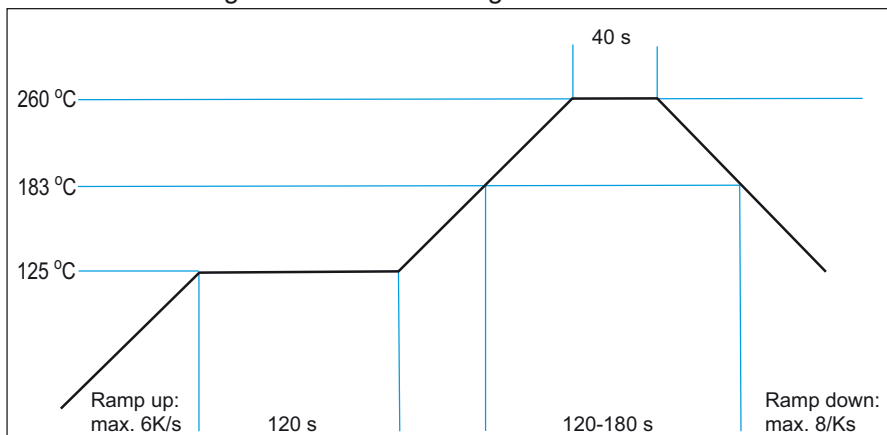
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TAPE & REEL



SOLDERING INFORMATION

reflow soldering conditions according JEDEC norm J-STD-020C



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### CONTACT DATA

All Data at 20° C	Contact Form →	Form A			
		Min.	Typ.	Max.	Units
<b>Contact Ratings</b>	<b>Conditions</b>				
Switching Power	Any DC combination of V & A not to exceed their individual max.'s			10	W
Switching Voltage	DC or peak AC			200	V
Switching Current	DC or peak AC			0.5	A
Carry Current	DC or peak AC			1.25	A
Static Contact Resistance	w/ 0.5 V & 10 mA			150	mΩ
Dynamic Contact Resistance	Measured w/ 0.5 V & 50 mA , 1.5 ms after closure			200	mΩ
Insulation Resistance across Contacts	100 volts applied	10 <sup>12</sup>			Ω
Breakdown Voltage across Contact	Voltage applied for 60 sec. min.	225			VDC
Operation Time incl. Bounce	Measured w/ 100 % overdrive			0.5	ms
Release Time	Measured w/ no coil suppression			0.1	ms
Capacitance	at 10 kHz cross contact		0.2		pF
<b>Contact Operation *</b>					
Must Operate Condition	Steady state field	10		30	AT
Must Release Condition	Steady state field	4		27	AT
<b>Environmental Data</b>					
Shock Resistance	1/2 sinus wave duration 11 ms			30	g
Vibration Resistance	From 10 - 2000 Hz			20	g
Ambient Temperature	10°C/ minute max. allowable	-40		85	°C
Stock Temperature	10°C/ minute max. allowable	-50		85	°C
Soldering Temperature	5 sec. dwell			260	°C
Please note: The indicated electrical data are maximum values and can vary downwards when using a more sensitive switch. * These ranges refer to the uncut / unmodified Reed Switches described in our Reed Switch section. Consult factory if more detail is required.					