MEDER electronic

MK17 Series

Reed Sensors for SMD Mounting

DESCRIPTION

MK17 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.

· Lead design 3:

J-Lead.

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 $12.5 \times 2.1 \times 2.1 \text{mm}$ and the simple internal structure.

FEATURES

- Two operate sensitivities available
- Tape and Reel available
- Excellent for low power operations
- · No external power required for sensor operation

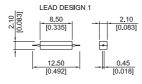


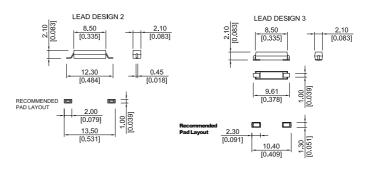
APPLICATIONS

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

DIMENSIONS

All dimensions in mm [inches]





ORDER INFORMATION

SENSITIVITY CLASS	PULL IN AT RANGE
В	10 - 15
С	15 - 20

Part Number Example

MK17 - B - 1

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

SERIES	MAGNETIC SENSITIVITY	LEAD DESIGN
MK17 -	х -	x
OPTIONS	B, C	1, 2

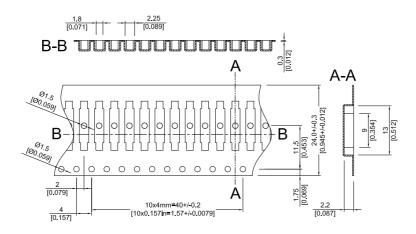
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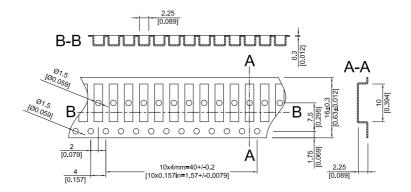
TAPE & REEL

(LEAD DESIGN 1 AND 2)



TAPE & REEL

(LEAD DESIGN 3)



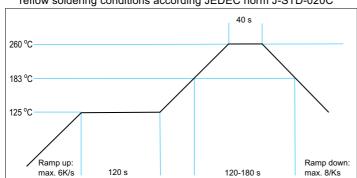
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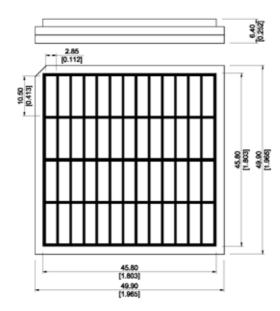
SOLDERING INFORMATION

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



TRAY

(J-LEAD OPTION ONLY)



MK17 Series

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Reed Sensors for **SMD Mounting**

CONTACT DATA

All data at 20 °C	0 °C Contact Form>		Form A		
Contact Ratings	Conditions	Min.	Тур.	Max.	Units
Switching Power	Any DC combination of V & A not to exceed their individual max.'s			10	w
Switching Voltage	DC or peak AC			170	V
Switching Current	DC or peak AC			0.5	Α
Carry Current	DC or peak AC			0.5	Α
Static Contact Resistance	w/ 0.5V & 10mA			200	mΩ
Dynamic Contact Resistance	Measured w/ 0.5V & 50mA 1.5 ms after closure			250	mΩ
Insulation Resistance across Contacts	100 Volts applied	10 ⁹			Ω
Breakdown Voltage across Contacts	Volatge applied for 60 sec. min.	210			VDC
Operate Time, incl. Bounce	Measured w/ 100% overdrive			0.6	ms
Reset Time	Measured w/ no coil suppression			0.1	ms
Capacitance	@ 10kHz across contact		0.2		pF
Contact Operation *					
Must Operate Condition	Steady state field	10		20	AT
Must Reset Condition	Steady state field	4		18	AT
Environmental Data					
Shock Resistance	1/2 sine wave duration 11ms			30	g
Vibration Resistance	From 10 - 2000 Hz			20	g
Ambient Temperature	10 °C/ minute max. allowable	-40		130	°C
Storage Temperature	10 °C/ minute max. allowable	-50		130	°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.