Reed Sensors for SMD Mounting

DESCRIPTION

MK16 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 15.6 x 2.3 x 2.3 mm and the simple internal structure (low-cost version).

FEATURES

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



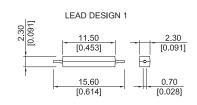
APPLICATIONS

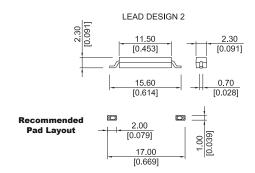
- Electronic PCB's where all components are surface mounted
- Telecommunication applications

 Hook switch in mobile and hard-wired phones
- Switching element in microphones

DIMENSIONS

All dimensions in mm [inch]





ORDER INFORMATION

Series	Magnetic Sensitivity	Lead Design	
MK16 -	X -	x	
Options	B, C, D, E	1.2	

Part Number Example

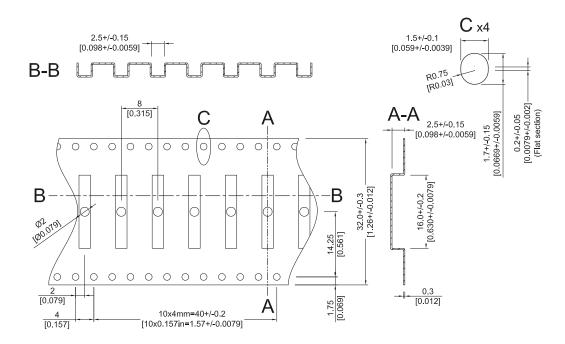
MK16 - B - 1

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

Sensitivity class	Pull In At Range			
В	10 - 15			
С	15 - 20			
D	20 - 25			
E	25 - 30			

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TAPE & REEL



SOLDERING INFORMATION

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



Reed Sensors for SMD Mounting

CONTACT DATA

All Data at 20° 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			200	V
Switching Current	DC or peak AC			0.5	А
Carry Current	DC or peak AC			0.5	А
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 ¹²			Ω
Breakdown Voltage across Contact	Voltage applied for 60 sec. min.	230			VDC
Operation Time incl. Bounce	Measured w/ 100 % overdrive			0.6	ms
Release Time	Measured w/ no coil suppression			0.1	ms
Capacitance	at 10 kHz cross contact		0.2		pF
Contact Operation *					
Must Operate Condition	Steady state field	10		30	AT
Must Release Condition	Steady state field	4		18	AT
Environmental Data					
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		130	°C
Stock Temperature	10°C/ minute max. allowable	-50		130	°C
Soldering Temperature	5 sec. dwell			360	°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.