MEDER electronic

Products for Tomorrow...

Reed Technology Solutions

Product Spotlight

REED RELAYS | REED SENSORS | REED SWITCHES

KSK-1A04 Series (4mm) Reed Switches

DESCRIPTION

KSK-1A04 Series Reed Switches are magnetically actuated, ultra-miniature, low power reed switches. Designed with flat lead terminals they provide consistent contact orientation and larger contact soldering surface in SMT applications.

FEATURES

Ultra-miniature size (4mm)
Hermetically sealed
Dynamically tested contacts
Millions of reliable operations
Five different sensitivity ranges
Flat lead design-Consistent contact orientation and large soldering surface
No external power required for operation
Suitable for low power applications in miniature devices

APPLICATIONS

Contactless sensors
Low power miniature devices
Position sensor
Limit switch
Space limited
Hand-held devices
Cell phones
Notebook computers
Medical devices (i.e. hearing aids)

MARKETS

Automotive, Aviation, Marine, Telecommunications, Security
Test & Measurement, Household Medical, Computer

World's Smallest Reed Switch with Flat Contact Terminals!

- The KSK-1A04 Series offers the smallest glass size (4mm) available at MEDER
- Ultra-miniature size conquers space limitations allowing high density board population
- Flat lead design best solution for consistent contact orientation and larger surface area for SMT soldering
- Available in multiple sensitivity ranges (AT)
- Suitable for low power miniature devices

Our KSK-1A04 Series Reed Switches, at 4mm in glass size are currently the smallest reed switch offered by MEDER electronic and the world's smallest reed switch with flat contact terminals. The flat contact lead design provides two major assembly advantages over the traditional round leads, which are consistent contact orientation and large soldering surface area both ideal for SMT applications. These ultra-miniature reed switches are offered in five contact sensitivity (AT) ranges (A, B, C, D, & E).

The KSK-1A04 Reed Switches are used in contactless sensors as position and limit detection switches as well as level sensors. They are especially fitting for applications with space limitations and low power applications in miniature devices.

Part Number Example

KSK –1A04 – 1015

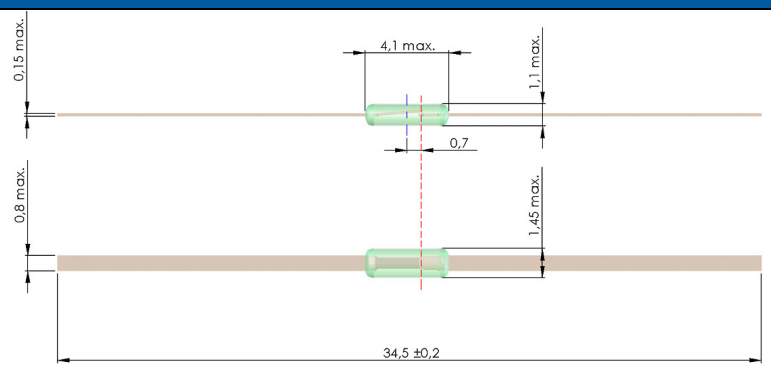
KSK Series
1A04 Reed Switch contact form
1015 Sensitivity range (AT)

KSK-1A04 SERIES CONTACT DATA BY SENSITIVITY CLASS

All Data at 20° C	Contact Form ⟶	1 Form A (Normally Open)					
		Sensitivity Class					
Contact Ratings	**Conditions**	**A**	**B**	**C**	**D**	**E**	**Unit**
Rated Power (max.)	Any DC combination of V & A not to exceed their individual max.'s	1*	3*	3*	3*	3*	W
Switching Voltage (max.)	DC or peak AC	30	30	30	30	30	V
Switching Current (max.)	DC or peak AC	0.1	0.3	0.3	0.3	0.3	A
Carry Current (max.)	DC or peak AC	0.3	0.5	0.5	0.5	0.5	A
Static Contact Resistance (max.)	Measured with 40% overdrive Start value	250	200	200	200	200	mΩ
Insulation Resistance (max.)	RH <45%, 100V test voltage	10^{10}	10^{10}	10^{10}	10^{10}	10^{10}	Ω
Breakdown Voltage (min.)	According to IEC 255-5	60	100	100	100	100	VDC
Operate Time incl. Bounce (max.)	Measured with 40% overdrive	0.25	0.2	0.2	0.2	0.2	ms
Release Time (max.)	Measured with no coil excitation	0.15	0.15	0.15	0.15	0.15	ms
Capacitance (typ.)	At 10kHz across open switch	0.1	0.1	0.1	0.1	0.1	pF
Contact Operation							
Pull-In	Uncut / unmodified value	5-10	10-15	15-20	20-25	25-30	AT
Environmental Data							
Shock Resistance (max.)	½ sine wave duration 11ms	15	15	15	15	15	g
Vibration Resistance (max.)	From 10-1200 Hz	10	10	10	10	10	g
Operating Temperature	10°C/ minute max. allowable	-40 up to + 130					°C
Storage Temperature	10°C/ minute max. allowable	-55 up to + 130					°C
Soldering Temperature (max.)	Wave soldering max. 5 sec. *) bracing of connections to avoid	260	260	260	260	260	°C

* The indicated electrical data are maximum values and can vary downwards when using a more sensitive switch. Consult factory if more detail is required.

DIMENSIONS



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