



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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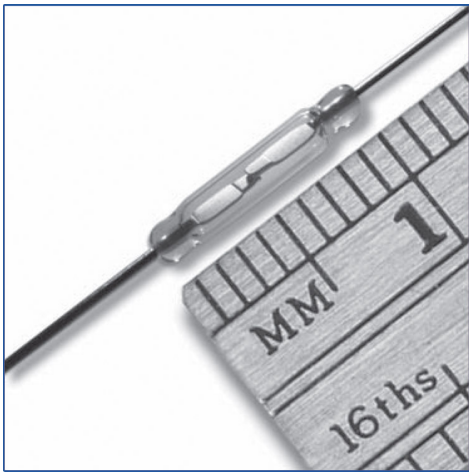
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RI-60 Series Dry Reed Switch



RI-60 Series

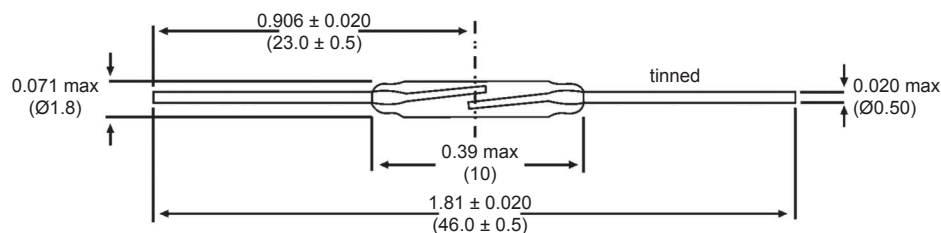
Ultra-miniature dry-reed switch hermetically sealed in a gas-filled glass envelope. Single-pole, single-throw (SPST) type, having normally open contacts, and containing two magnetically actuated reeds.

The switch is of the double-ended type and may be actuated by an electromagnet, a permanent magnet or a combination of both. The device is intended for use in relays, sensors, pulse counters or similar devices.

RI-60 Series Features

- Ideal for ATE switching
- Contact layers: gold, sputtered ruthenium
- Superior glass-to-metal seal and blade alignment
- Excellent life expectancy and reliability
- RoHS Compliant

Dimensions for RI-60 Series



All Dimension in inches (mm) nominal

General data for all models RI-60

AT-Customization / Performed Leads

Besides the standard models, customized products can also be supplied offering the following options:

- Operate and release ranges to customer specification
- Cropped and/or performed leads

Coils

All characteristics are measured using the Philips Standard Coil. For definitions of the Philips Standard Coil, refer to "Application Notes" in the *Reed Switch Technical & Application Information* Section of this catalog.

Life expectancy and reliability

The life expectancy data given below are valid for a coil energized at 1.25 times the published maximum operate value for each type in the RI-60 series.

No load conditions (operating frequency: 100Hz)

Life expectancy: min. 10^9 operations with a failure rate of less than 2×10^{-10} with a confidence level of 90%.

End of life criteria:

Contact resistance > 1Ω after 2 ms

Release time > 2 ms (latching or contact sticking).

Loaded conditions (resistive load: 5 V; 100 mA; operating frequency: 125 Hz)

Life expectancy: min. 2×10^7 operations with a failure rate of less than 10^{-8} with a confidence level of 90%.

End of life criteria:

Contact resistance > 1Ω after 2.5 ms

Release time > 1 ms (latching or contact sticking).

Loaded conditions (resistive load: 20 V; 500 mA; operating frequency: 125 Hz)

Life expectancy: min. 2×10^7 operations with a failure rate of less than 10^{-8} with a confidence level of 90%.

End of life criteria:

Contact resistance > 2Ω after 2.5 ms

Release time > 2.5 ms (latching or contact sticking).

Switching different loads involves different life expectancy and reliability data. Further information is available on request.

Mechanical Data

Contact arrangement is normally open; lead finish is

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Technical Specifications

Parameters	Test Conditions	Units	RI-60
Operating Characteristics			
Operate Range		AT	7-21
Release Range		AT	3-16
Operate Time - including Bounce (typ.)		ms	0.15
Bounce Time (typ.)		ms	0.035
Release Time (max)		µs	20
Resonant Frequency (typ.)		Hz	11300
Electrical Characteristics			
Switched Power (max)		W	10
Switched Voltage DC (max)		V	200
Switched Voltage AC, RMS value (max)		V	140
Switched Current DC (max)		mA	500
Switched Current AC, RMS value (max)		mA	500
Carry Current DC (max)		mA	500
Breakdown Voltage (min)		V	230
Contact Resistance (initial max.)		mΩ	125
Contact Resistance (initial typ.)		mΩ	95
Contact Capacitance (max)	without test coil	pF	0.25
Insulation Resistance (min)	RH ≤ 45%	MΩ	10 ⁶

tinned; net mass is approximately 90mg; and can be mounted in any position.

Shock

The switches are tested in accordance with “IEC 68-2-27”, test Ea (peak acceleration 100 G, half sinewave; duration 11 ms). Such a shock will not cause an open switch (no magnetic field present) to close, nor a switch kept closed by an 80 AT coil to open.

Vibration

The switches are tested in accordance with “IEC 68-2-26”, test Fc (acceleration 10G; below cross-over-frequency 57 to 62 Hz; amplitude 0.75 mm; frequency range 10 to 2000 Hz; duration 90 minutes.) Such a vibration will not cause an open switch (no magnetic field present) to close, nor a switch kept closed by an 80 AT coil to open.

Mechanical Strength

The robustness of the terminations is tested in accordance with “IEC 68-2-21”, test Ua1 (load 10 N).

Operating and Storage Temperature

Operating ambient temperature; min: -55°C; max: +125°C. Storage temperature; min: -55°; max: +125°C. Note: Temperature excursions up to 150°C may be permissible. For more information contact your nearest Comus Group sales office.

Soldering

The switch can withstand soldering heat in accordance with “IEC 68-2-20”, test Tb, method 1B: solder bath at 350 ± 10°C for 3.5 ± 0.5 s. Solderability is tested in accordance with “IEC 68-2-20” test Ta, method 3: solder globule temperature 235°C; ageing 1b: 4 hours steam.

Welding

The leads can be welded.

Mounting

The leads should not be bent closer than 1 mm to the glass-to-metal seals. Stress on the seals should be avoided. Care must be taken to prevent stray magnetic fields from influencing the operating and measuring conditions.

* As part of the company policy of continued product improvement, specifications may change without notice. Our sales office will be pleased to help you with the latest information on this product range and the details of our full design and manufacturing service. All products are supplied to our standard conditions of sale unless otherwise agreed in writing.

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