

ORD9215 Reed Switch

Ultra-miniature

- The ORD9215 is a small single-contact reed switch designed for general control of medium level loads less than 100 V. The contacts are sealed within the glass tube with inert gas to maintain contact reliability.



ORD9215 Ultra-miniature

Applications

- Control equipment

- Communication equipment

- Measurement equipment

- Household appliances

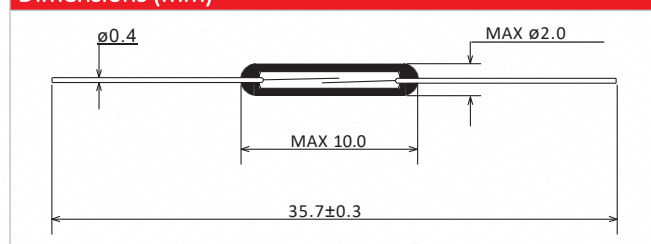
Features

- Reed contacts are hermetically sealed within a glass tube with inert gas and do not receive any influence from the external atmospheric environment.
- Quick response
- The structure comprises the operating parts and electrical circuits arranged coaxially. Reed switches are suited to applications in radio frequency operation.
- Reed switches are compact and light weight.
- Superior corrosion resistance and wear resistance of the contacts assures stable switching operation and long life.
- With a permanent magnet installed, reed switches economically and easily become proximity switches.

Electrical Characteristics

Parameter	Rated Value	Unit
Pull-In Range	10~50	AT
Drop-Out (min.)	4	AT
Contact Resistance (max.)	100	mΩ
Breakdown Voltage (min.)	150	VDC
Insulation Resistance (min.)	10 ⁹	Ω
Electrostatic Capacitance (max.)	0.3	pF
Contact Rating	10	VA
Switching Voltage (max.)	100 DC/ AC	V
Switching Current (max.)	0.5	A
Carry Current (max.)	1.0	A

Dimensions (mm)



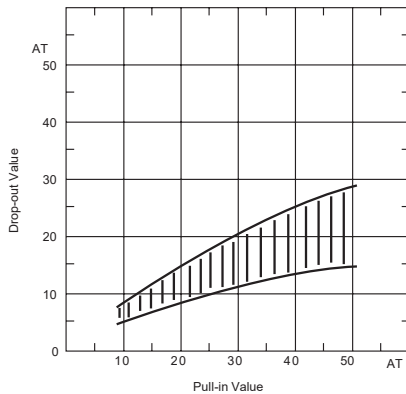
Operating Characteristics

Parameter	Rated Value	Unit
Operate Time (max.)	0.4	ms
Bounce Time (max.)	0.4	ms
Release Time (max.)	0.05	ms
Resonant Frequency	3700±400	Hz
Operating Frequency (max.)	500	Hz

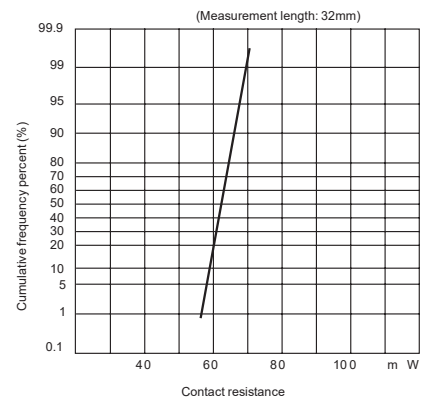
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ELECTRICAL CHARACTERISTICS

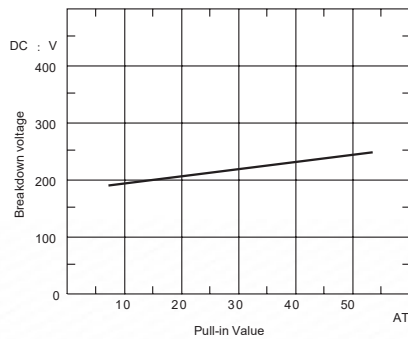
Pull-in Value vs. Drop-out Value



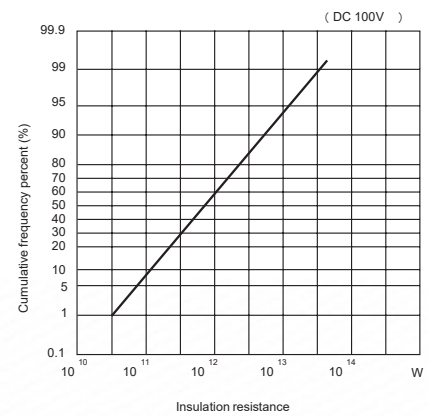
Contact resistance



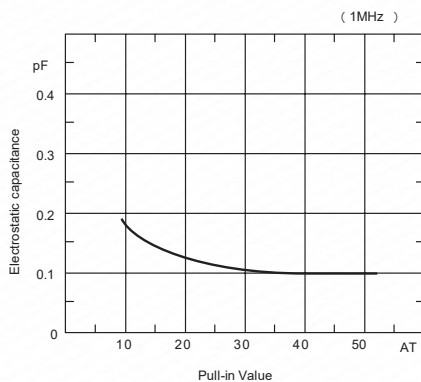
Breakdown voltage



Insulation resistance



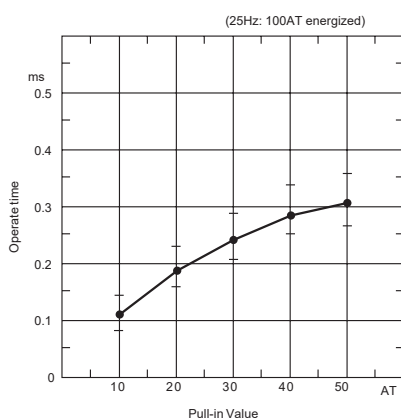
Electrostatic capacitance



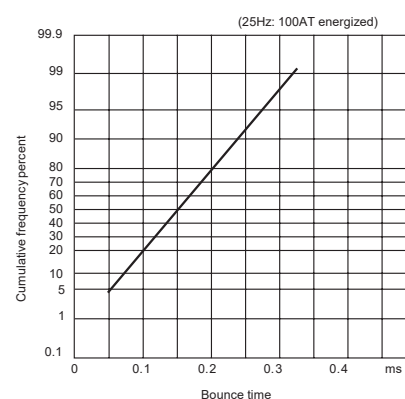
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OPERATING CHARACTERISTICS

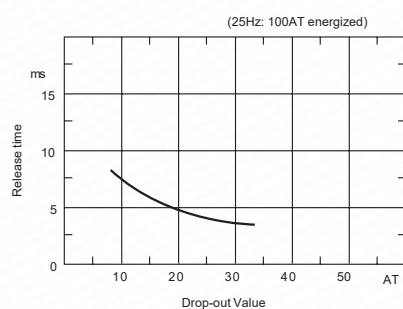
Operate time



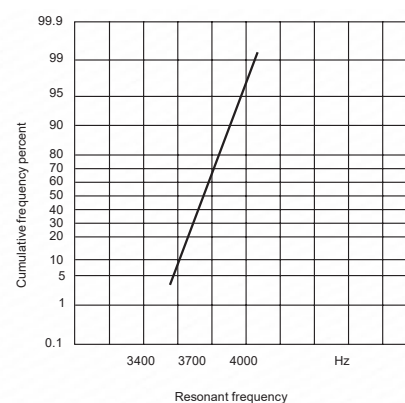
Bounce time



Release time



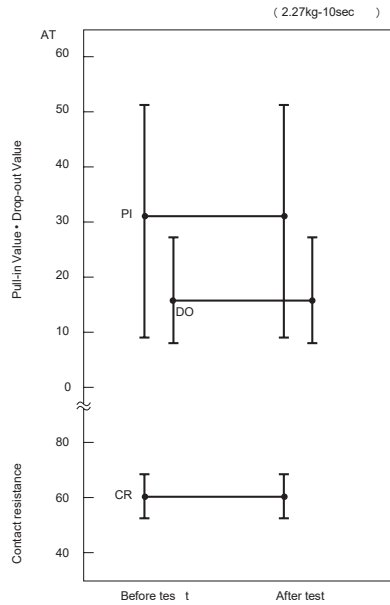
Resonant frequency



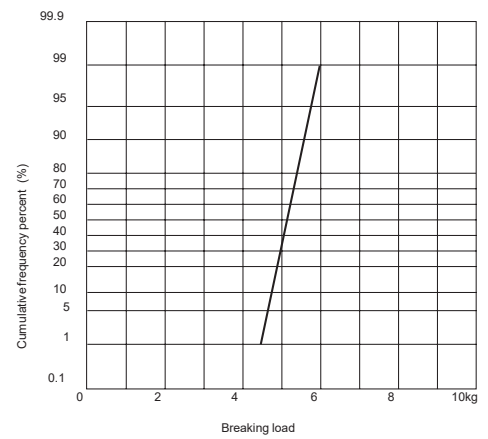
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MECHANICAL CHARACTERISTICS

Lead tensile test (static load)



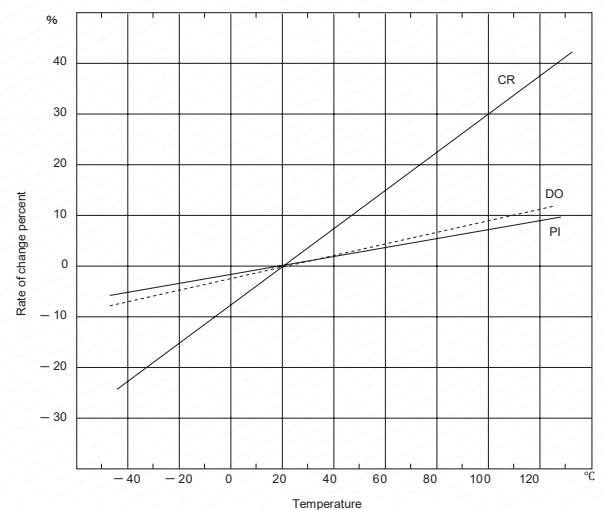
Lead tensile strength



ENVIRONMENTAL CHARACTERISTICS

Parameter	Rated Value	Unit
Temperature range	-40 to +125	°C
Shock (11ms)	294 (30G)	m/s ²
Vibration (10~2000Hz)	196 (20G)	m/s ²
Lead tensile strength	19.6 (2kgf)	N

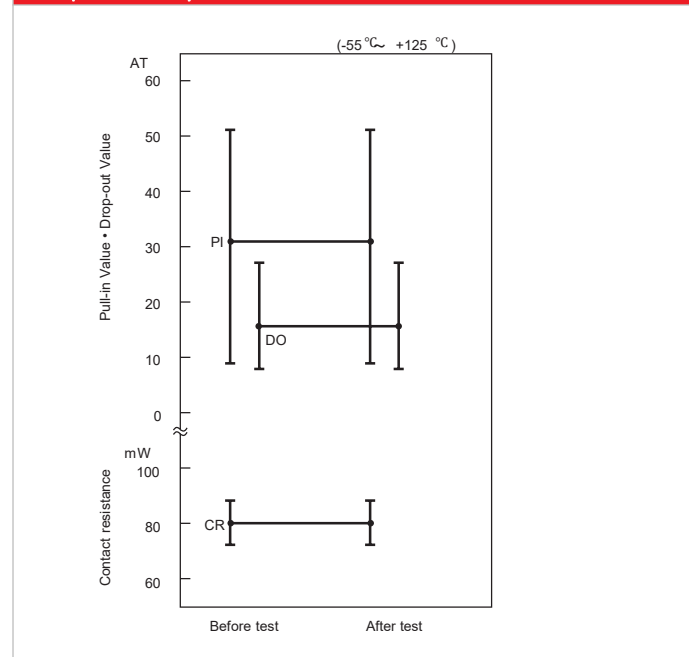
Temperature characteristics



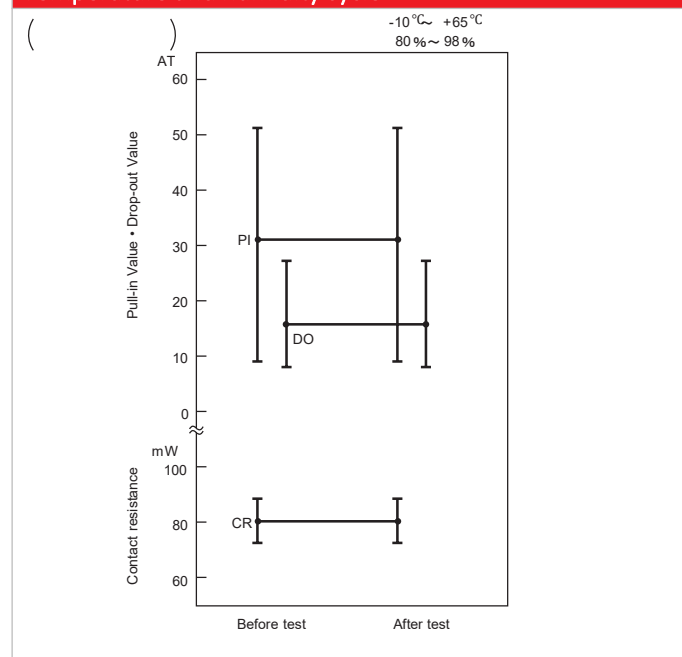
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ENVIRONMENTAL CHARACTERISTICS

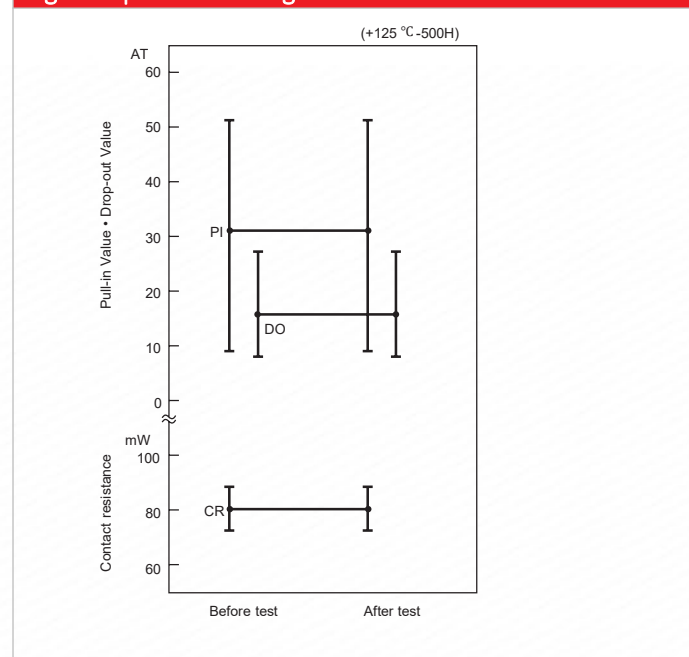
Temperature cycle



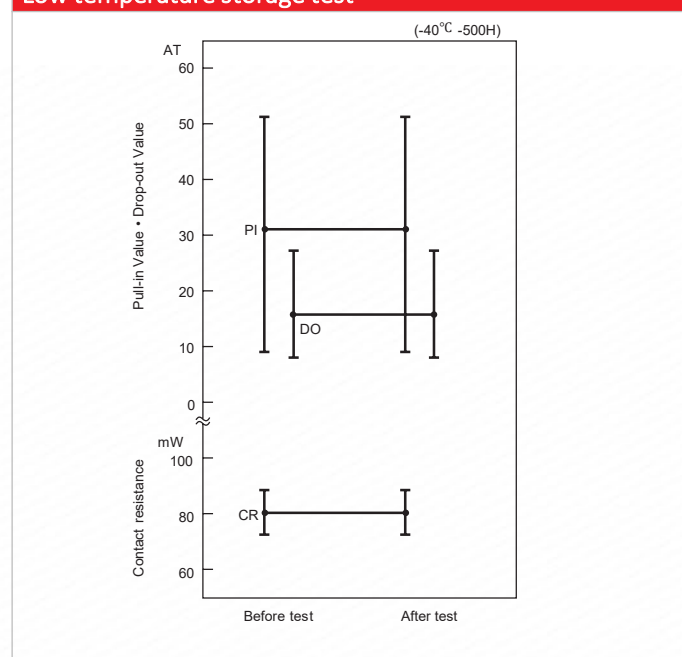
Temperature and humidity cycle



High temperature storage test



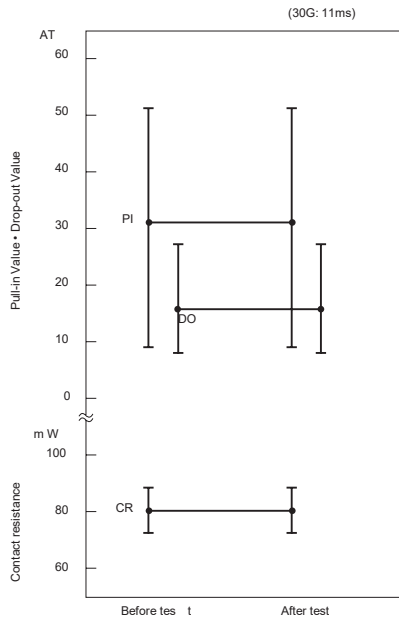
Low temperature storage test



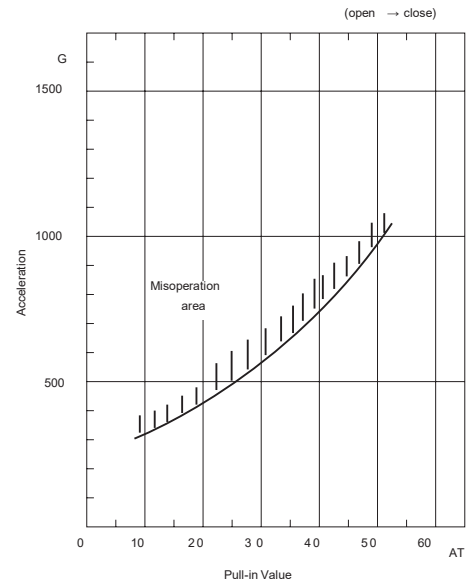
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ENVIRONMENTAL CHARACTERISTICS

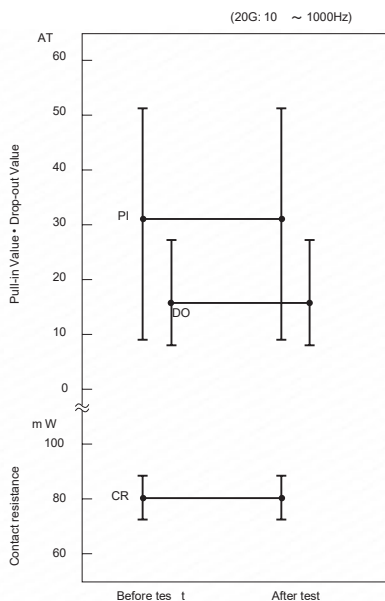
Shock test (Electrical characteristics)



Shock test (Misoperation area)



Vibration test



Please note: All technical specifications on this datasheet refer to the standard product range. Modifications in the sense of technical progress are reserved. For general information only. For more specific information, please consult the product datasheet, available upon request.

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