



OL series

Dry Reed Relay

Telecommunications, Office Machines.

Features

- Low cost, small package dry reed relay.
- 1 Form A and 2 Form A contact arrangements.
- Immersion cleanable, sealed version available. Consult factory.

Contact Data @ 20°C

Arrangements: 1 Form A (SPST-NO), 2 Form A (DPST-NO).

Material: Rh, Ru.

Max. Switching Rate: 300 ops./min. (no load).
30 ops./min. (rated load).

Expected Mechanical Life: 100 million operations (no load).

Expected Electrical Life: 1,000,000 operations (rated load).

Minimum Load: 1mA @ 1VDC.

Initial Contact Resistance: 150 milliohms @ 100mA, 6VDC.

Coil Data

Voltage: 3 to 24VDC.

Nominal Power: 100 mW to 270mW.

Coil Temperature Rise: 30°C max., at rated coil voltage.

Max. Coil Power: 150% of nominal.

Duty Cycle: Continuous.

Coil Data @ 20°C

OL				
Rated Coil Voltage (VDC)	Nominal Current (mA)	Coil Resistance (ohms) ± 10%	Must Operate Voltage (VDC)	Must Release Voltage (VDC)
3	68.3	44	2.10	0.30
5	41.7	120	3.50	0.50
6	34.3	175	4.20	0.60
9	22.5	400	6.30	0.90
12	17.1	700	8.40	1.20
24	11.4	2,100	16.80	2.40

Contact Ratings

Ratings:

100µA @ 5VDC, 100,000,000 operations.

1mA @ 5VDC, 50,000,000 operations.

5mA @ 5VDC, 50,000,000 operations.

5mA @ 12VDC, 50,000,000 operations.

10mA @ 12VDC, 50,000,000 operations.

100mA @ 12VDC, 10,000,000 operations.

100mA @ 24VDC, 7,000,000 operations.

200mA @ 24VDC, 7,000,000 operations.

400mA @ 24VDC, 5,000,000 operations.

Max. Switched Voltage: AC: 120V.

DC: 60V.

Max. Switched Current: 0.5A.

Max. Switched Power: 10VA, 10W.

Initial Dielectric Strength

Between Open Contacts: 200VDC. (1 second).

Between Coil and Contacts: 3,000VDC. (1 second).

Surge Voltage Between Coil and Contacts: 3,000V (10 / 160µs).

Operate Data

Must Operate Voltage: 70% of nominal voltage or less.

Must Release Voltage: 10% of nominal voltage or more.

Operate Time: 1.0 ms max.

Release Time: 0.5 ms max.

Environmental Data

Temperature Range:

Operating: -30°C to +60°C

Vibration, Mechanical: 10 to 55 Hz., 1.5mm double amplitude

Operational: 10 to 55 Hz., 1.5mm double amplitude.

Shock, Mechanical: 1,000m/s² (100G approximately).

Operational: 100m/s² (10G approximately).

Operating Humidity: 20 to 85% RH. (Non-condensing)

Mechanical Data

Termination: Printed circuit terminals.

Enclosure (94V-0 Flammability Ratings): Snap-on dust cover.

Weight: 0.07 oz (2g) approximately.

Ordering Information

Typical Part Number ▶

OL

-C

-2

05

H

1. Basic Series:

OL = Dry Reed Relay.

2. Enclosure:

C = Snap-on dust cover.

3. Termination:

1 = 1 pole 2 = 2 pole

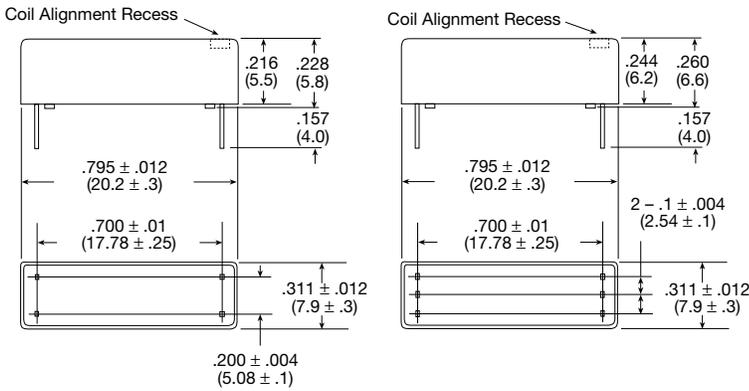
4. Coil Voltage:

03 = 3VDC 06 = 6VDC 12 = 12VDC
05 = 5VDC 09 = 9VDC 24 = 24VDC

5. Contact Rating:

H = 0.1A @ 120VAC

Outline Dimensions



Wiring Diagrams (Bottom View)

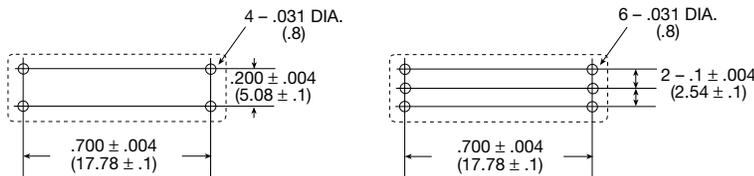


1 Form A



2 Form A

PC Board Layouts (Bottom View)



1 Form A

2 Form A