

OMR series

Dry Reed Relay

Telecommunications, Office Machines.

A File No. E82292

Users should thoroughly review the technical data before selecting a product part number. It is recommended that user also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.

Features

· Low cost, small package dry reed relay.

1 Form A contact and 2 Form A arrangements.

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.

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).

Coil Data

Voltage: 6 to 24VDC

Nominal Power: 100 mW to 280mW.

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

Max. Coil Power: 160% of nominal.

Duty Cycle: Continuous.

Coil Data @ 20°C

OMR				
Rated Coil Voltage (VDC)	Nominal Current (mA)	Coil Resistance (ohms) ± 10%	Must Operate Voltage (VDC)	Must Release Voltage (VDC)
5/6	24.0	250	3.50	0.50
9	12.9	700	6.30	0.90
12	11.4	1,050	8.40	1.20
24	11.5	2,080	16.80	2.40

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 +70°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)

Initial Insulation Resistance

Between Mutually Insulated Elements: 1,000M ohms min. @ 100VDCM.

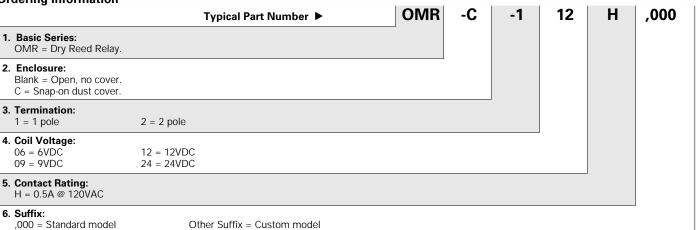
Mechanical Data

Termination: Printed circuit terminals. Enclosure (94V-0 Flammability Ratings): OMR: Open, no cover. OMR-C: Snap-on dust cover. Weight: 0.16 oz (4.5g) approximately.

Catalog 1308242 Issued 3-03

OEG

Ordering Information

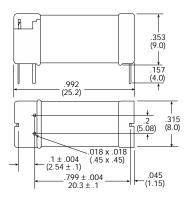


Our authorized distributors are more likely to stock the following items for immediate delivery.

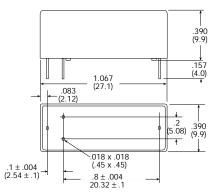
None at present

Outline Dimensions

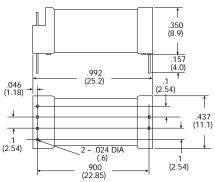
Open Type, 1 Form A



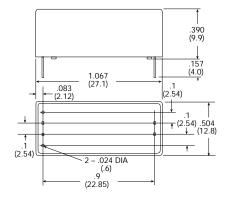
Snap-on Dust Cover Type, 1 Form A



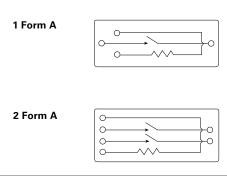
Open Type, 2 Form A



Snap-on Dust Cover type, 2 Form A



Wiring Diagrams (Bottom View)



PC Board Layout (Bottom View)

