## OEG



# **Features**

- Low profile miniature power relay
- High density available on PC board due to small size
- 450mW coil available
- Meets 2kV dielectric between coil and contacts.
- Meets 5kV surge voltage
- · Immersion cleanable, sealed version available.

## Contact Data @ 20°C

Arrangements: 1 Form A (SPST-NO), 1 Form C (SPDT).

Material: Ag Alloy

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

Expected Mechanical Life: 10 million operations (no load). Expected Electrical Life: 100,000 operations (rated load).

Minimum Load: 100mA @ 5VDC

Initial Contact Resistance: 100 milliohms @ 1A, 6VDC.

#### **Contact Ratings**

Ratings: 10A @ 120VAC resistive,

10A @ 28VDC resistive, 1/4 HP @ 120VAC.

3A @ 120VAC inductive (cosø= 0.4), 3A @ 28VDC inductive (L/R= 7msec)

Max. Switched Voltage: AC: 240V. **DC:** 110V.

Max. Switched Current: 10A. Max. Switched Power: 1,200VA, 300W

## Initial Dielectric Strength

Between Open Contacts: 750VAC 50/60 Hz. (1 minute). Between Coil and Contacts: 2,000VAC 50/60 Hz. (1 minute). Surge Voltage Between Coil and Contacts: 5,000V (1.2/50µs).

## **Initial Insulation Resistance**

Between Mutually Insulated Elements: 1,000M ohms min. @ 500VDCM.

#### **Coil Data**

Voltage: 3 to 48VDC

Nominal Power: 450mW except 48VDC coil (660mW) Coil Temperature Rise: 60°C max., at rated coil voltage

Max. Coil Power: 130% of nominal. Duty Cycle: Continuous.

## **OUDH**series

## 10 Amp Miniature, Sealed PC Board Relay

Appliances, HVAC, Office Machines. WWW.DZSC.CO

**AL** UL File No. E58304 © CSA File No. LR48471

#### Coil Data @ 20°C

OUDH				
Rated Coil Voltage (VDC)	Nominal Current (mA)	Coil Resistance (ohms) ± 10%	Must Operate Voltage (VDC)	Must Release Voltage (VDC)
3	150.0	20	2.25	0.30
6	75.0	80	4.50	0.60
9	50.0	180	6.75	0.90
12	37.5	320	9.00	1.20
24	20.9	1,280	18.00	2.40
48	13.7	3,500	36.00	4.80

#### Operate Data

Must Operate Voltage: 75% of nominal voltage or less. Must Release Voltage: 10% of nominal voltage or more.

Operate Time: 10 ms max. Release Time: 5 ms max

#### **Environmental Data**

Temperature Range: Operating: -30°C to +60°C

(no water condensation and no water drop.) 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.

#### Mechanical Data

Termination: Printed circuit terminals. Enclosure (94V-0 Flammability Ratings): OUDH-SS: Vented (Flux-tight), plastic cover.

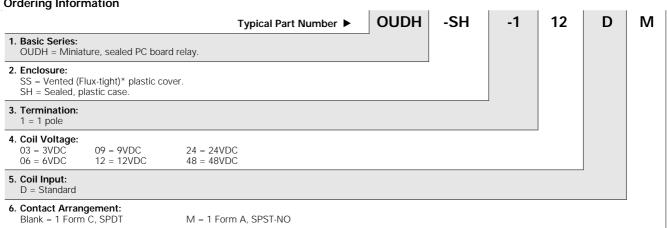
OUDH-SH: Sealed, plastic case.

Weight: 10g approximately



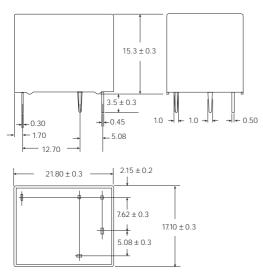
## OEG

#### **Ordering Information**



<sup>\*</sup> Not suitable for immersion cleaning processes.

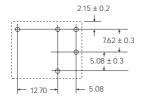
## **Outline Dimensions**



## Wiring Diagram (Bottom View)

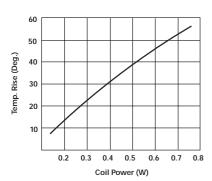


## PC Board Layout (Bottom View)

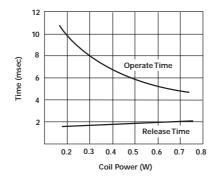


## Reference Data

## **Coil Temperature Rise**



## **Operate Time**



## Life Expectancy

