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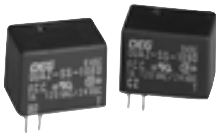

OUAZ series

Miniature, Sealed PC Board Relay

Telecommunications, Appliances, Office Machines, Audio Equipment.

UL File No. E82292
CSA File No. LR48471

Features

- Gold overlay silver palladium alloy contact suitable for low loads.
- High density available on PC board due to small size.
- 2.54mm terminal pitch same as I.C. socket terminal pitch.
- Sensitive and standard coils available.
- Immersion cleanable, sealed version available.

Contact Data @ 20°C

Arrangements: 1 Form A (SPST-NO) and 1 Form C (SPDT).
Material: Gold overlay silver palladium.
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: 1mA @1VDC.
Initial Contact Resistance: 50 milliohms @ 100mA,6VDC.

Contact Ratings

Ratings: 1A @ 24VDC resistive,
1A @ 120VAC resistive.
Max. Switched Voltage: **AC:** 120V.
DC: 60V.
Max. Switched Current: 1A.
Max. Switched Power: 120VA, 30W.

Initial Dielectric Strength

Between Open Contacts: 500VAC 50/60 Hz. (1 minute).
Between Coil and Contacts: 1,000VAC 50/60 Hz. (1 minute).
Surge Voltage Between Coil and Contacts: 1,500V FCC Part 68 (10/160µs).

Initial Insulation Resistance

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

Coil Data

Voltage: 3 to 24VDC.
Nominal Power: **OUAZ-D:** 450 mW.
OUAZ-L: 200 mW.
Coil Temperature Rise: **OUAZ-D:** 60°C max., at rated coil voltage.
OUAZ-L: 25°C max., at rated coil voltage.
Max. Coil Power: 130% of nominal.
Duty Cycle: Continuous.

Coil Data @ 20°C

OUAZ-D Standard				
Rated Coil Voltage (VDC)	**Nominal Current (mA)**	**Coil Resistance (ohms) ± 10%**	**Must Operate Voltage (VDC)**	**Must Release Voltage (VDC)**
3	150.0	20	2.10	0.15
5	90.9	55	3.50	0.25
6	75.0	80	4.20	0.30
9	50.0	180	6.30	0.45
12	37.5	320	8.40	0.60
24	18.8	1,280	16.80	1.20
OUAZ-L Sensitive				
Rated Coil Voltage (VDC)	**Nominal Current (mA)**	**Coil Resistance (ohms) ± 10%**	**Must Operate Voltage (VDC)**	**Must Release Voltage (VDC)**
3	66.7	45	2.25	0.30
5	40.0	125	3.75	0.50
6	33.3	180	4.50	0.60
9	22.5	400	6.75	0.90
12	17.0	700	9.00	1.20
24	8.6	2,800	18.00	2.40

Operate Data

Must Operate Voltage: **OUAZ-D:** 70% of nominal voltage or less.
OUAZ-L: 75% of nominal voltage or less.
Must Release Voltage: **OUAZ-D:** 5% of nominal voltage or more.
OUAZ-L: 10% of nominal voltage or more.
Operate Time: **OUAZ-D:** 5 ms max.
OUAZ-L: 10 ms max.
Release Time: 7 ms max.

Environmental Data

Temperature Range:
Operating: **OUAZ-D:** -30°C to +60°C
OUAZ-L: -30°C to +75°C.
Vibration, Mechanical: 10 to 55 Hz., 1.5mm double amplitude
Operational: 10 to 55 Hz., 1.5mm double amplitude.
Shock, Mechanical: 500m/s² (50G 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):
OUAZ-SS: Vented (Flux-tight), plastic cover.
OUAZ-SH: Sealed, plastic case.
Weight: 0.12 oz. (3.5g) approximately.

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Ordering Information

Typical Part Number ▶	OUAZ	-SS	-1	12	L	M

1. Basic Series:
OUAZ = Miniature, sealed PC board relay.

2. Enclosure:
SS = Vented (Flux-tight)*, plastic cover.
SH = Sealed, plastic case.

3. Termination:
1 = 1 pole

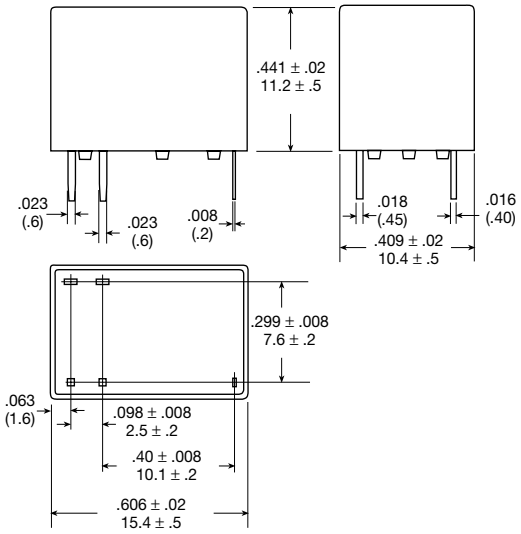
4. Coil Voltage:
03 = 3VDC 06 = 6VDC 12 = 12VDC
05 = 5VDC 09 = 9VDC 24 = 24VDC

5. Coil Input:
L = Sensitive D = Standard

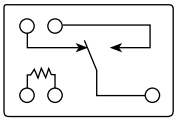
6. Contact Arrangement:
Blank = 1 Form C, SPDT M = 1 Form A, SPST-NO

* Not suitable for immersion cleaning processes.

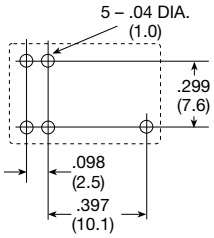
Outline Dimensions



Wiring Diagram (Bottom View)

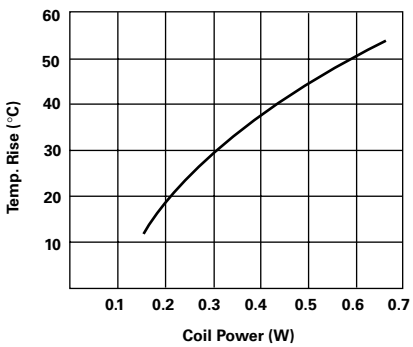


PC Board Layout (Bottom View)

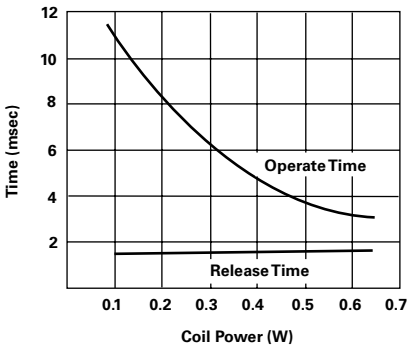


Reference Data

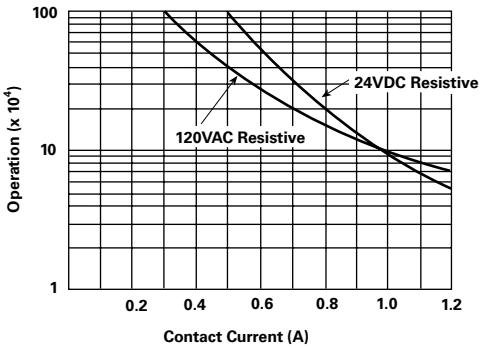
Coil Temperature Rise



Operate Time



Life Expectancy



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