

# **OUAZ** series

## Miniature, Sealed PC Board Relay

Telecommunications, Appliances, Office Machines, Audio Equipment.

**TU** UL File No. E82292 © CSA File No. LR48471

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**

- 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.

DC: 60V.

Max. Switched Power: 120VA, 30W.

Max. Switched Voltage: AC: 120V.

Max. Switched Current: 1A.

## 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

(10/160us).

#### **Initial Insulation Resistance**

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

### Coil Data

Voltage: 5 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      | Nominal | Coil         | Must Operate | Must Release |  |  |
| Voltage         | Current | Resistance   | Voltage      | Voltage      |  |  |
| (VDC)           | (mA)    | (ohms) ± 10% | (VDC)        | (VDC)        |  |  |
| 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         |  |  |

#### **OUA7-L Sensitive**

| OOAZ-E SCHSILIVE |         |              |              |              |  |  |
|------------------|---------|--------------|--------------|--------------|--|--|
| Rated Coil       | Nominal | Coil         | Must Operate | Must Release |  |  |
| Voltage          | Current | Resistance   | Voltage      | Voltage      |  |  |
| (VDC)            | (mA)    | (ohms) ± 10% | (VDC)        | (VDC)        |  |  |
| 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/s<sup>2</sup> (50G approximately). Operational: 100m/s<sup>2</sup> (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.

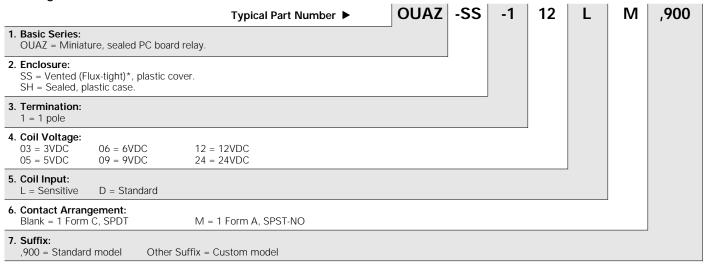
OUAZ-SH: Sealed, plastic case.

Weight: 0.12 oz. (3.5g) approximately.

**tyco** Catalog 1308242

 Electronics
 Issued 3-03
 **DEG**

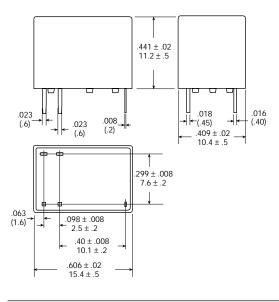
## **Ordering Information**



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

Our authorized distributors are more likely to stock the following items for immediate delivery. None at present.

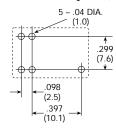
#### **Outline Dimensions**



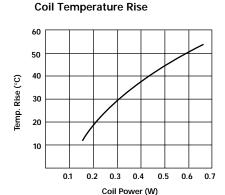
#### Wiring Diagram (Bottom View)



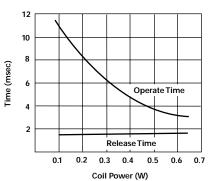
## PC Board Layout (Bottom View)



#### **Reference Data**



## Operate Time



## Life Expectancy

