

# **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.

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

 $(10/160 \mu s)$ .

#### **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		

#### **OUAZ-L Sensitive**

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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**

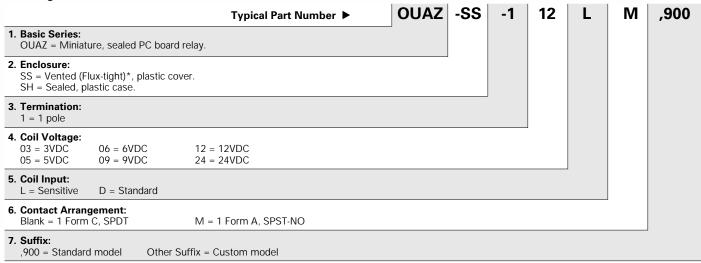
Termination: Printed circuit terminals. **Enclosure (94V-0 Flammability Ratings):** 

OUAZ-SS: Vented (Flux-tight), plastic cover.

OUAZ-SH: Sealed, plastic case. Weight: 0.12 oz. (3.5g) approximately.

tyco Catalog 1308242 Issued 3-03 **OEG** Electronics

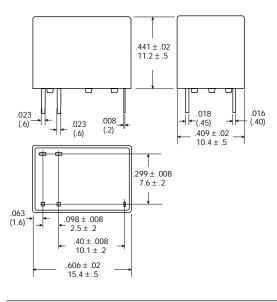
# **Ordering Information**



<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.

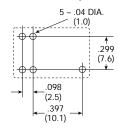
## **Outline Dimensions**



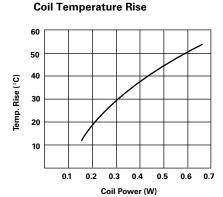
## Wiring Diagram (Bottom View)



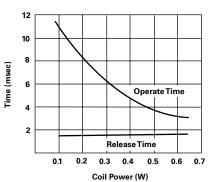
# PC Board Layout (Bottom View)



## **Reference Data**



# **Operate Time**



Life Expectancy

