

## Signal PCB Relay OUAZ

- 1pole, 1A, 1form A (NO), 1 form C (CO)
- 2.54mm terminal pitch same as I.C. socket terminal pitch
- Gold overlay AgPd alloy contact suitable for low loads

Typical applications  
Telecommunications, office machine



### Approvals

UL E82292, CSA LR48471, TuV R50138762 (Z)  
Technical data of approved types on request

### Contact Data

|                               |                               |
|-------------------------------|-------------------------------|
| Contact arrangement           | 1 form A (NO), 1 form C (CO)  |
| Rated voltage                 | 24VDC, 120VAC                 |
| Max. switching voltage        | 24VDC, 120VAC                 |
| Rated current                 | 1A                            |
| Switching power               | 120VA, 30W                    |
| Contact material              | AgPd Alloy                    |
| Min. recommended contact load | 1mA at 1VDC                   |
| Initial contact resistance    | 50mΩ at 100mA, 6VDC           |
| Frequency of operation        | 72000h <sup>-1</sup>          |
| Operate/release time max.     |                               |
| standard coil                 | 5/7ms                         |
| sensitive coil                | 10/7ms                        |
| Electrical endurance          |                               |
| 1A, 120VAC, resistive,        | 100x10 <sup>3</sup> ops.      |
| 1A, 24VDC, resistive,         | 100x10 <sup>3</sup> ops.      |
| Contact ratings               | 1A, 120VAC/24VDC              |
| Mechanical endurance          | 10x10 <sup>6</sup> operations |

### Coil Data

|                    |            |
|--------------------|------------|
| Magnetic system    |            |
| Coil voltage range | 5 to 24VDC |

### Coil Data (continued)

#### Coil versions, DC coil

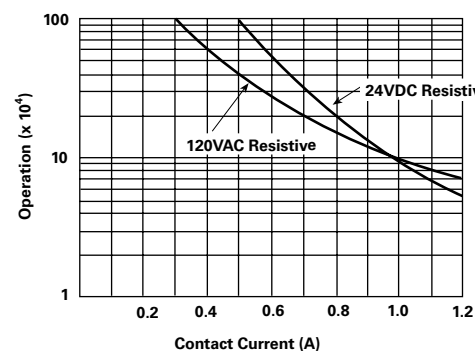
| Coil code                    | Rated voltage VDC | Operate voltage VDC | Release voltage VDC | Coil resistance Ω±10% | Rated coil power mW |
|------------------------------|-------------------|---------------------|---------------------|-----------------------|---------------------|
| <b>Standard coil, 450mW</b>  |                   |                     |                     |                       |                     |
| 05                           | 5                 | 3.5                 | 0.25                | 55                    | 450                 |
| 06                           | 6                 | 4.2                 | 0.3                 | 80                    | 450                 |
| 09                           | 9                 | 6.3                 | 0.45                | 180                   | 450                 |
| 12                           | 12                | 8.4                 | 0.6                 | 320                   | 450                 |
| 24                           | 24                | 16.8                | 1.2                 | 1.280                 | 450                 |
| <b>Sensitive coil, 200mW</b> |                   |                     |                     |                       |                     |
| 05                           | 5                 | 3.75                | 0.5                 | 125                   | 200                 |
| 06                           | 6                 | 4.5                 | 0.6                 | 180                   | 200                 |
| 09                           | 9                 | 6.75                | 0.9                 | 400                   | 200                 |
| 12                           | 12                | 9.0                 | 1.2                 | 700                   | 200                 |
| 24                           | 24                | 18.0                | 2.4                 | 2800                  | 200                 |

All figures are given for coil without pre-energization, at ambient temperature +23°C.

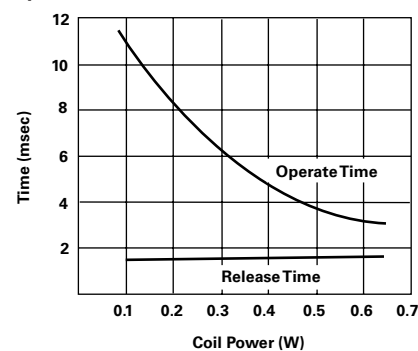
### Insulation Data

|                                 |                      |
|---------------------------------|----------------------|
| Initial dielectric strength     |                      |
| between open contacts           | 500V <sub>rms</sub>  |
| between contact and coil        | 1000V <sub>rms</sub> |
| high insulation version (Z)     | 1500V <sub>rms</sub> |
| Initial surge withstand voltage |                      |
| between contact and coil        | 1500V (10/160μs)     |
| Clearance/creepage              |                      |
| between contact and coil        | 1.5/1.76mm           |

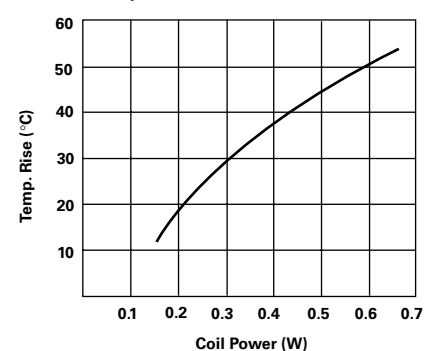
### Electrical endurance



### Operate time



### Coil temperature rise



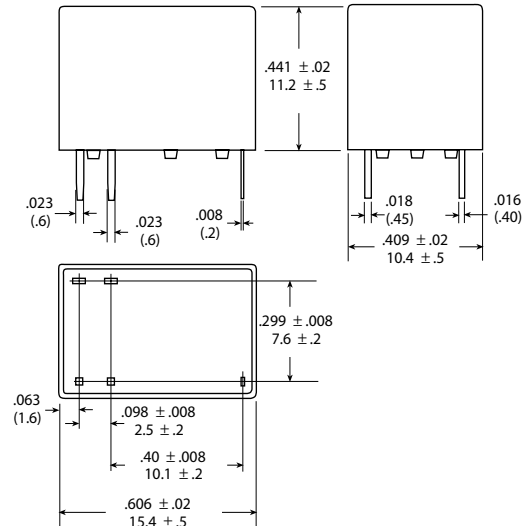
**Signal PCB Relay OUAZ** (Continued)

**Other Data**

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at [www.te.com/customersupport/rohssupportcenter](http://www.te.com/customersupport/rohssupportcenter)

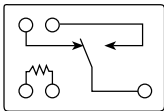
|                                      |                                          |
|--------------------------------------|------------------------------------------|
| Ambient temperature                  |                                          |
| standard coil                        | -30 to 60°C                              |
| sensitive coil                       | -30 to 70°C                              |
| Category of environmental protection |                                          |
| IEC 61810                            | RTII - flux proof,<br>RTIII - wash tight |
| Vibration resistance (functional)    | 10-50Hz, 1.5mm double amplitude          |
| Shock resistance (functional)        |                                          |
| IEC 60068-2-27 (half sine)           | 98m/s <sup>2</sup> , 11ms                |
| Terminal type                        | PCB-THT                                  |
| Weight                               | 3.5g                                     |
| Resistance to soldering heat THT     |                                          |
| IEC 60068-2-20                       | 260°C/5s                                 |
| Packaging/unit                       | tube/25 pcs., box/2000 pcs.              |

**Dimensions**



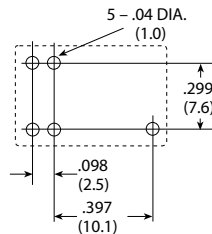
**Terminal assignment**

Bottom view on solder pins



**PCB layout**

Bottom view on solder pins



**Product code structure**

Typical product code

**OUAZ** **-SS** **1** **12** **D** **M** **,900**

|                     |                                                |                              |  |
|---------------------|------------------------------------------------|------------------------------|--|
| Type                | OUAZ Signal PCB Relay OUAZ                     |                              |  |
| Sealing             | SS Flux proof                                  | SH Wash tight                |  |
| Pole                | 1 1pole                                        |                              |  |
| Coil                | coil code: please refer to coil versions table |                              |  |
| Coil Power          | D Standard 540mW                               | L Sensitive 200mW            |  |
| Contact Arrangement | Blank 1 form C (CO)                            | M 1 form A (NO)              |  |
| Insulation          | Blank Standard                                 | Z High Insulation (1500V)    |  |
| Suffix              | .900 Standard                                  | .800 High Insulation (1500V) |  |

| Product code     | Version | Contact       | Cont.material | Coil power | Coil voltage | Sealing    | Part number |
|------------------|---------|---------------|---------------|------------|--------------|------------|-------------|
| OUAZ-SS-105D,900 | 1A      | 1 form C (CO) | AgPd Alloy    | 450mW      | 5VDC         | Flux proof | 8-1419130-3 |
| OUAZ-SS-112D,900 |         |               |               | 450mW      | 12VDC        |            | 5-1419145-7 |
| OUAZ-SS-124D,900 |         |               |               | 450mW      | 24VDC        |            | 1461015-1   |
| OUAZ-SS-105L,900 |         |               |               | 200mW      | 5VDC         |            | 8-1419130-6 |
| OUAZ-SS-112L,900 |         |               |               | 200mW      | 12VDC        |            | 1419131-5   |
| OUAZ-SS-124L,900 |         |               |               | 200mW      | 24VDC        |            | 1-1419131-1 |
| OUAZ-SH-105D,900 |         |               |               | 450mW      | 5VDC         | Wash tight | 3-1419145-9 |
| OUAZ-SH-112D,900 |         |               |               | 450mW      | 12VDC        |            | 5-1419130-6 |
| OUAZ-SH-124D,900 |         |               |               | 450mW      | 24VDC        |            | 1461015-4   |
| OUAZ-SH-105L,900 |         |               |               | 200mW      | 5VDC         |            | 4-1419145-0 |
| OUAZ-SH-112L,900 |         |               |               | 200mW      | 12VDC        |            | 6-1419130-5 |
| OUAZ-SH-124L,900 |         |               |               | 200mW      | 24VDC        |            | 4-1419145-8 |