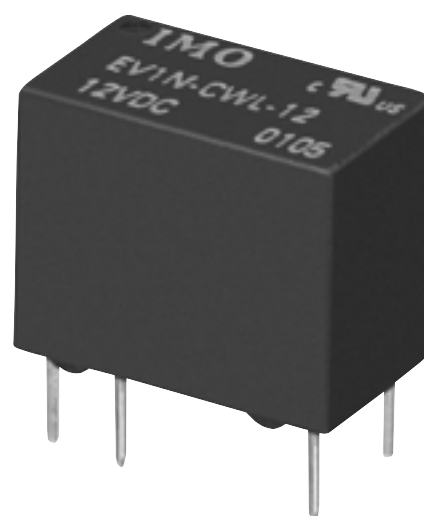
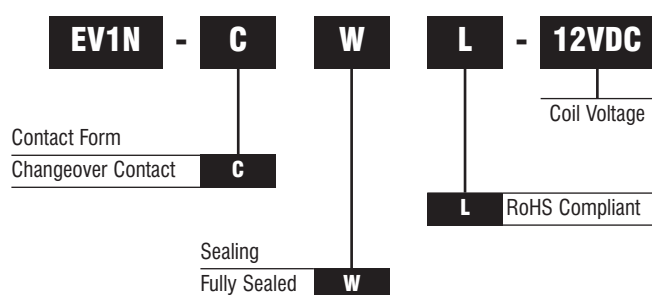


# Subminiature Signal Relay EV1N



- 1 Form C (SPCO)
- Fully sealed for immersion cleaning
- Ultra Small Size
- High Coil Sensitivity 150mW
- UL/CUR recognised
- RoHS Compliant

## Options and ordering codes



## Contact Data

|                            |                                    |
|----------------------------|------------------------------------|
| Contact arrangement        | 1C                                 |
| Initial contact Res. max   | 100m $\Omega$ (at 1A 6VDC)         |
| Contact material           | AgNi + Au clad                     |
| Contact Rating (Res. Load) | 0.3A 60VAC/0.5A 125VAC/1A 30VDC    |
| Max. switching voltage     | 125VAC/60VDC                       |
| Max. switching current     | 2A                                 |
| Max. switching power       | 62.5VA/30W                         |
| Min. permissible load      | 5V, 1mA                            |
| Mechanical Life            | 1x10 <sup>7</sup> OPS (3000PS/min) |
| Electrical Life            | 1x10 <sup>6</sup> OPS (300PS/min)  |

## Characteristics

|                                  |                        |                       |
|----------------------------------|------------------------|-----------------------|
| Initial Insulation Resistance    |                        | 1000M $\Omega$ 500VDC |
| Dielectric Strength              | Between coil & contact | 1000VAC 1min.         |
|                                  | Between open contacts  | 400VAC 1min.          |
| Operate time (at nomi. Volt)     |                        | Max. 5ms              |
| Release time (at nomi. Volt)     |                        | Max. 5ms              |
| Bounce time (at nomi. Volt)      |                        | Max. 5ms              |
| Temperature rise (at nomi. Volt) |                        | Max. 55 °C            |
| Shock resistance                 |                        | 100m/s <sup>2</sup>   |
| Vibration resistance             |                        | 10 to 55Hz 3.3mm      |
| Humidity                         |                        | 35% to 85%            |
| Ambient temperature              |                        | -30 °C to +70 °C      |
| Unit weight                      |                        | 2.2g                  |
| Termination                      |                        | PCB                   |
| Construction                     |                        | Sealed IP67           |

## Coil

|            |       |
|------------|-------|
| Coil power | 150mW |
|------------|-------|

## Coil specification

| Nominal Voltage VDC | Pick-up Voltage VDC | Drop-out Voltage VDC | Coil Current (at 20°C) mA | Coil Resistance (at 20°C) $\Omega$ |
|---------------------|---------------------|----------------------|---------------------------|------------------------------------|
| 1.5                 | 1.2                 | 0.15                 | 100                       | 15 $\pm$ 10%                       |
| 3                   | 2.4                 | 0.3                  | 50                        | 60 $\pm$ 10%                       |
| 5                   | 4                   | 0.5                  | 29.9                      | 167 $\pm$ 10%                      |
| 6                   | 4.8                 | 0.6                  | 25                        | 240 $\pm$ 10%                      |
| 9                   | 7.2                 | 0.9                  | 16.7                      | 540 $\pm$ 10%                      |
| 12                  | 9.6                 | 1.2                  | 12.5                      | 960 $\pm$ 10%                      |
| 24                  | 19.2                | 2.4                  | 6.25                      | 3840 $\pm$ 10%                     |

## Safety Approval Ratings

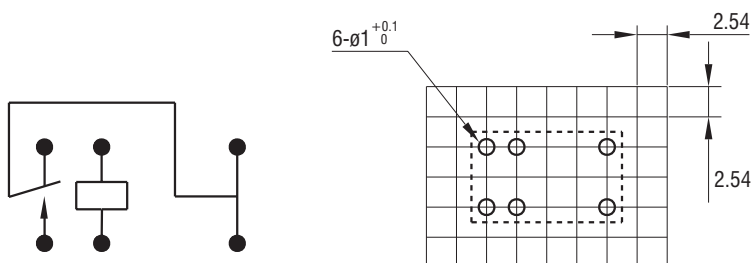
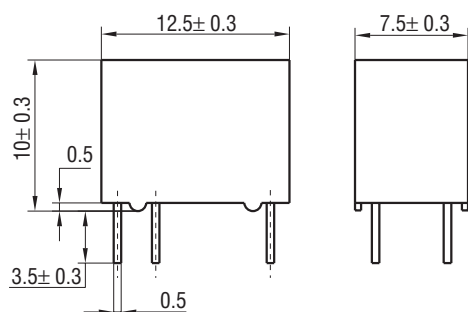
|    |                                         |
|----|-----------------------------------------|
| UL | 1.0A 30VDC<br>0.3A 60VDC<br>0.5A 125VAC |
|----|-----------------------------------------|

# Subminiature Signal Relay EV1N



## Outline Dimensions (mm)

Wiring diagram and PC Board layout



## Characteristic Curve

