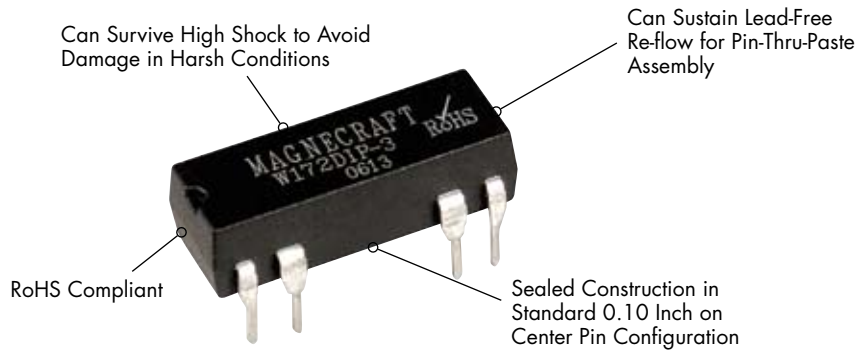


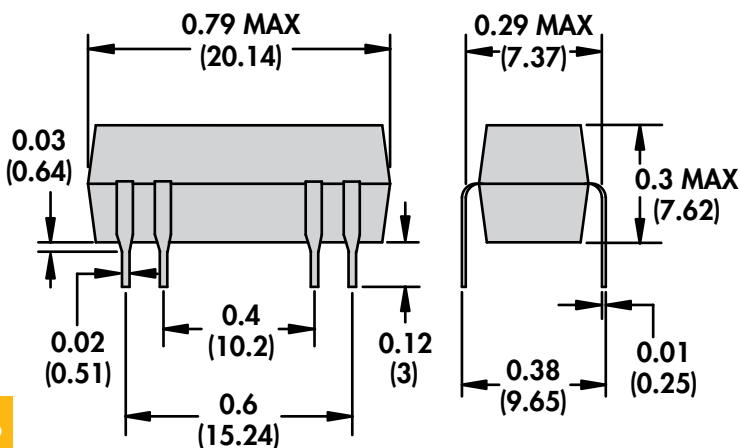
## 172DIP PCB Mount Miniature Reed Relay/SPDT and DPDT 0.25 Amp Rated



### General Specifications

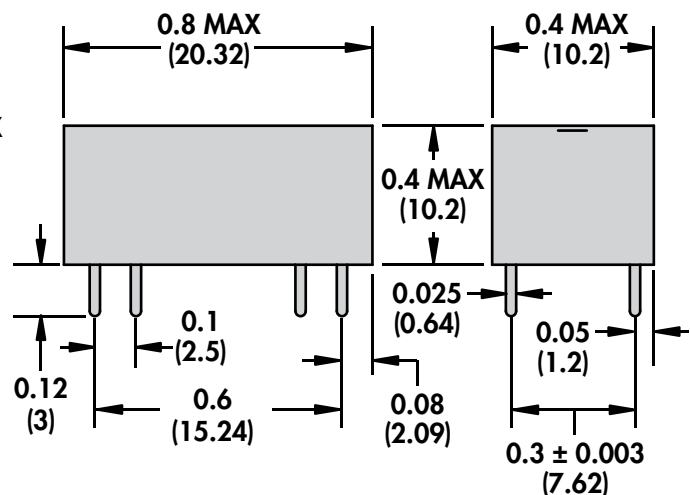
| Contact Characteristics        |  | Units                                  | 172DIP<br>SPDT | 172DIP<br>DPDT |
|--------------------------------|--|----------------------------------------|----------------|----------------|
| Number and type of Contacts    |  |                                        | Rhodium        | Rhodium        |
| Contact materials              |  |                                        |                |                |
| Current rating                 |  | A                                      | 0.25           | 0.25           |
| Switching voltage              |  | V                                      | 60             | 60             |
|                                |  | V                                      | 100            | 100            |
| Minimum Switching Requirement  |  | mA                                     | 10             | 10             |
| Minimum                        |  |                                        |                |                |
| Coil Characteristics           |  |                                        |                |                |
| Voltage Range                  |  | V                                      | 5...24         | 5...24         |
| Operating Range                |  | % of Nominal                           | 80% to 110%    | 80% to 110%    |
| Average consumption            |  | W                                      | 0.29           | 0.29           |
| Drop-out voltage threshold     |  |                                        | 10%            | 10%            |
| Performance Characteristics    |  |                                        |                |                |
| Electrical Life                |  | Operations @ Rated Current (Resistive) | 50,000,000     | 50,000,000     |
| Mechanical Life                |  | Unpowered                              | 100,000,000    | 100,000,000    |
| Operating time (response time) |  | ms                                     | 1              | 1              |
| Rated insulation voltage       |  | Between coil and contact               | 1000           | 1000           |
| Dielectric strength            |  | Between poles                          | 1000           | 1000           |
| rms voltage                    |  | Between contacts                       | 200            | 200            |
| Environment                    |  |                                        |                |                |
| Ambient air temperature        |  | Storage                                | °C             | -40...+85      |
| around the device              |  | Operation                              | °C             | -40...+55      |
| Vibration resistance           |  | Operational                            | g-n            | 20, 10-200 Hz  |
| Shock resistance               |  |                                        | g-n            | 50             |
| Weight                         |  |                                        | grams          | 1              |

**172DIP SPDT**



WHEN SPACING DIP RELAYS, THE RELAYS  
REQUIRE 1/2 INCH SPACING FROM THE  
SIDE OF THE ADJACENT RELAYS

**172DIP DPDT**



DRAWINGS AND PIN SPACING ENLARGED TO 200% OF ACTUAL SIZE



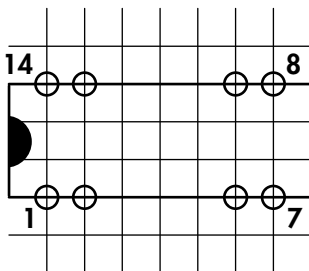
### Standard Part Numbers

**BOLD-FACED PART NUMBERS ARE NORMALLY STOCKED**

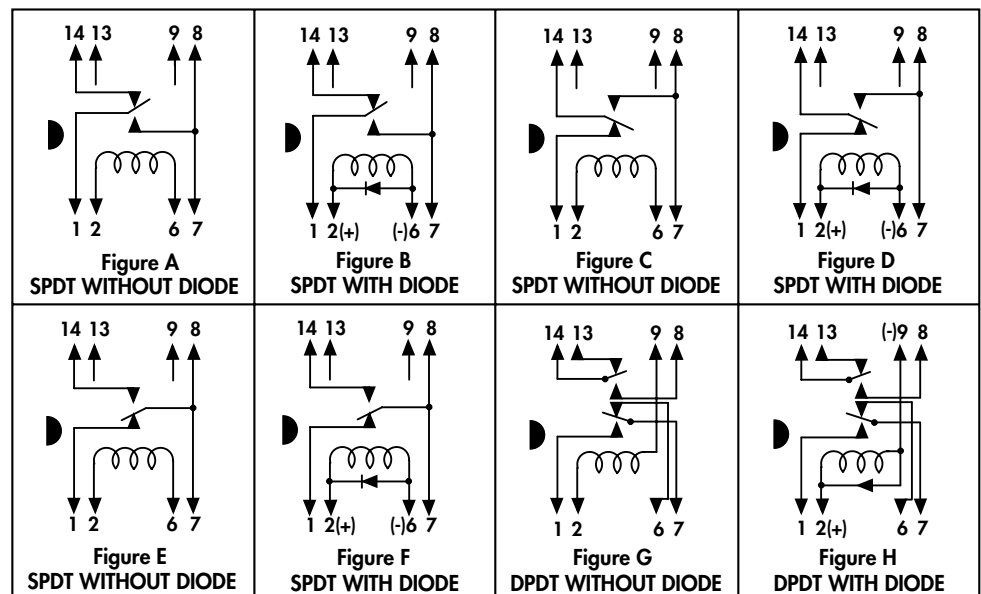
| Nominal Input Voltage | Nominal Coil Resistance ( $\Omega$ ) | Part Number        | Contact Configuration  | Figure |
|-----------------------|--------------------------------------|--------------------|------------------------|--------|
| 5 VDC                 | 200 $\Omega$                         | <b>W172DIP-1</b>   | SPDT                   | A      |
| 12 VDC                | 1000 $\Omega$                        | <b>W172DIP-3</b>   | SPDT                   | A      |
| 24 VDC                | 2200 $\Omega$                        | <b>W172DIP-4</b>   | SPDT                   | A      |
| 5 VDC                 | 200 $\Omega$                         | <b>W172DIP-5</b>   | SPDT w/ Clamping Diode | B      |
| 12 VDC                | 1000 $\Omega$                        | <b>W172DIP-7</b>   | SPDT w/ Clamping Diode | B      |
| 24 VDC                | 2200 $\Omega$                        | <b>W172DIP-8</b>   | SPDT w/ Clamping Diode | B      |
| 5 VDC                 | 200 $\Omega$                         | <b>W172DIP-31</b>  | SPDT                   | C      |
| 12 VDC                | 1000 $\Omega$                        | <b>W172DIP-33</b>  | SPDT                   | C      |
| 24 VDC                | 2200 $\Omega$                        | W172DIP-34         | SPDT                   | C      |
| 5 VDC                 | 200 $\Omega$                         | <b>W172DIP-35</b>  | SPDT w/ Clamping Diode | D      |
| 12 VDC                | 1000 $\Omega$                        | <b>W172DIP-37</b>  | SPDT w/ Clamping Diode | D      |
| 24 VDC                | 2200 $\Omega$                        | W172DIP-38         | SPDT w/ Clamping Diode | D      |
| 5 VDC                 | 200 $\Omega$                         | <b>W172DIP-141</b> | SPDT                   | E      |
| 12 VDC                | 1000 $\Omega$                        | <b>W172DIP-145</b> | SPDT                   | E      |
| 24 VDC                | 3200 $\Omega$                        | <b>W172DIP-146</b> | SPDT                   | E      |
| 5 VDC                 | 200 $\Omega$                         | <b>W172DIP-147</b> | SPDT w/ Clamping Diode | F      |
| 12 VDC                | 1000 $\Omega$                        | <b>W172DIP-149</b> | SPDT w/ Clamping Diode | F      |
| 24 VDC                | 3200 $\Omega$                        | <b>W172DIP-150</b> | SPDT w/ Clamping Diode | F      |
| 5 VDC                 | 46 $\Omega$                          | <b>W172DIP-17</b>  | DPDT                   | G      |
| 12 VDC                | 266 $\Omega$                         | <b>W172DIP-19</b>  | DPDT                   | G      |
| 24 VDC                | 1066 $\Omega$                        | <b>W172DIP-20</b>  | DPDT                   | G      |
| 5 VDC                 | 46 $\Omega$                          | <b>W172DIP-21</b>  | DPDT w/ Clamping Diode | H      |
| 12 VDC                | 266 $\Omega$                         | <b>W172DIP-23</b>  | DPDT w/ Clamping Diode | H      |
| 24 VDC                | 1066 $\Omega$                        | <b>W172DIP-24</b>  | DPDT w/ Clamping Diode | H      |

### WIRING DIAGRAMS TOP VIEW

CIRCUIT BOARD PIN SPACING  
VIEWED FROM COMPONENT SIDE  
(TOP VIEW)



0.1 IN GRID  
(2.54) MM



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