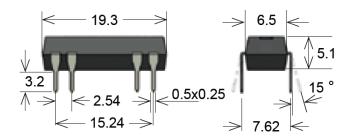


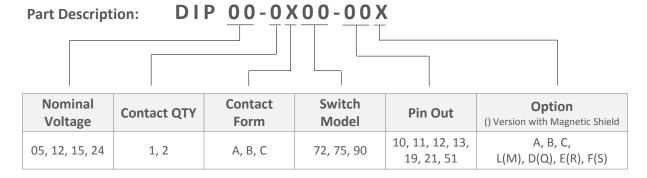
## Series Datasheet – DIP Reed Relays

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# DIP Series Reed Relays



- Features: Dual In-Line IC Compatible Relay, Available with Dielectric Strength 4.25VDC
- Applications: General Purpose, Measuring and Testing Devices & Others
- Markets: Telecommunications, Test and Measurement, Security & Others



| <b>Customer Options</b>  |                  | Unit             |                 |       |  |
|--|------------------|------------------|-----------------|-------|--|
| Contact Data   | 72               | 75               | 90              | Ullit |  |
| Rated Power (max.) Any DC combination of V&A not to exceed their individual max.'s | 10               | 10               | 10              | W     |  |
| Switching Voltage (max.) DC or peak AC   | 200              | 500              | 175             | V     |  |
| Switching Current (max.) DC or peak AC   | 0.5              | 0.5              | 0.5             | А     |  |
| Carry Current (max.) DC or peak AC   | 1.0              | 1.0              | 1.2             | А     |  |
| Contact Resistance (max.) @ 0.5V & 50mA  | 100              | 200              | 150             | mOhm  |  |
| Breakdown Voltage (min.) According to EN60255-5                                    | 0.25             | 0.6              | 0.2             | kVDC  |  |
| Operating Time (max.) Incl. Bounce; Measured with w/ Nominal Voltage               | 0.5              | 0.5              | 0.7             | ms    |  |
| Release Time (max.) Measured with no Coil Excitation                               | 0.1              | 0.1              | 1.5             | ms    |  |
| Insulation Resistance (typ.) Rh<45%, 100V Test Voltage                             | 10 <sup>10</sup> | 10 <sup>10</sup> | 10 <sup>9</sup> | GOhm  |  |
| Capacitance (typ.) @ 10kHz across open Switch                                      | 0.3              | 0.4              | 1.0             | pF    |  |



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| Coil Data       |                 | 0.111/16               | 0.110   | 5 11 1 1/ 1: | 5 0 1 1 1                  | N : 10 115                |  |
|-----------------|-----------------|------------------------|---|--------------|----------------------------|---------------------------|--|
| Contact<br>Form | Switch<br>Model | Coil Voltage<br>(nom.) | Coil Resistance Pull-In Voltage (typ.) (max.) |              | Drop-Out Voltage<br>(min.) | Nominal Coil Power (typ.) |  |
| Unit            |                 | VDC                    | Ohm   | VDC          | VDC                        | mW                        |  |
|                 |                 | 05                     | 500 (200)                                     | 3.5          | 0.75                       | 50                        |  |
| 1A, 1B*         | 72, 75**        | 12                     | 1,000   | 8.4          | 1.8                        | 145                       |  |
| IA, IB          | 12, 15          | 15                     | 2,000   | 10.5         | 2.2                        | 115                       |  |
|                 |                 | 24                     | 2,000   | 16.8         | 3.6                        | 290                       |  |
|                 | 90              | 05                     | 200   | 3.5          | 0.75                       | 125                       |  |
| 1C              |                 | 12                     | 500   | 8.4          | 1.8                        | 290                       |  |
| 10              |                 | 15                     | 2,000   | 10.5         | 2.2                        | 115                       |  |
|                 |                 | 24                     | 2,000   | 16.8         | 3.6                        | 290                       |  |
|                 | 72              | 05                     | 200   | 3.5          | 0.75                       | 125                       |  |
| 2A              |                 | 12                     | 500   | 8.4          | 1.8                        | 290                       |  |
|                 |                 | 15                     | 2,000   | 10.5         | 2.2                        | 115                       |  |
|                 |                 | 24                     | 2,000   | 16.8         | 3.6                        | 290                       |  |

The Pull-In / Drop-Out Voltage and Coil Resistance will change at rate of 0.4% per °C. \*Re-closure of Form B may occur if the max. coil voltage is exceeded. Coil polarity on Form B must be observed. Pin 2 is positive. () For Switch 1A75 \*\*1B-75 only with Coil Voltage 24 available.

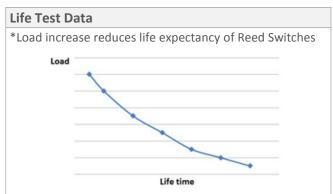
| <b>Environmental Data</b>                           | Unit      |    |  |
|---|-----------|----|--|
| Shock Resistance (max.) 1/2 sine wave duration 11ms | 50        | g  |  |
| Vibration Resistance (max.)                         | 20        | g  |  |
| Operating Temperature                               | -20 to 70 | °C |  |
| Storage Temperature                                 | -35 to 95 | °C |  |
| Soldering Temperature (max.) 5 sec. max.            | 260       | °C |  |

#### **Handling & Assembly Instructions**

- Switching inductive and/or capacitive loads create voltage and/or current peaks, which may damage the relay.

  Protective circuits need to be used.
- External magnetic fields needs to be taken into consideration, including a too high packing density. This may influence the relays' electrical characteristics.
- Mechanical shock impacts e.g. dropping the relays may cause immediate or post-installation failure.
- ➤ Wave soldering: maximum 260°/5 seconds.
- Reflow soldering: Recommendations given by the soldering paste manufacturer need to be considered as well as the temperature limits of other components/processes.







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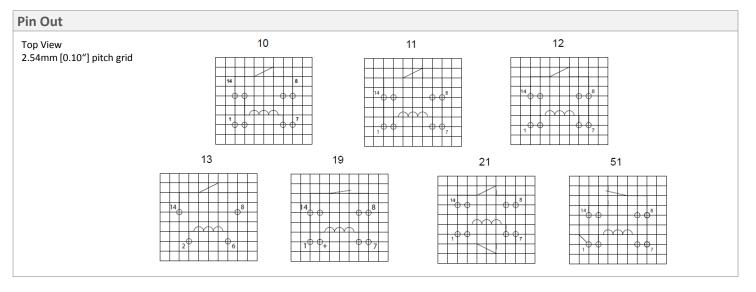
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| Glossary Contact Form |  |  |  |  |  |  |
|-----------------------|--|--|--|--|--|--|
| Form A                | NO = Normally Open Contacts<br>SPST = Single Pole Single Throw   |  |  |  |  |  |
| Form B                | NC = Normally Closed Contacts<br>SPST = Single Pole Single Throw |  |  |  |  |  |
| Form C                | Changeover<br>SPDT = Single Pole Double Throw                    |  |  |  |  |  |

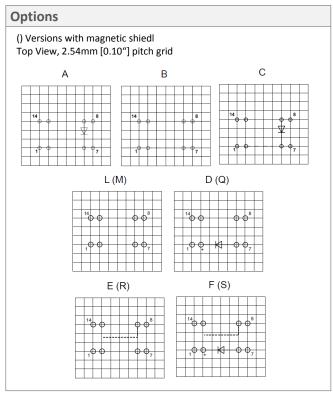








| Contact | Package      | Pin | Options |   |   |   |   |   |   |   |   |   |   |
|---------|--------------|-----|---------|---|---|---|---|---|---|---|---|---|---|
| Form    | Size         | Out | L       | Α | В | С | D | Ε | F | М | Q | R | S |
| 1A      | Low Profile  | 10  | Χ       | Χ | Χ | Χ |   |   |   |   |   |   |   |
|         |              | 11  | Χ       |   |   |   |   | Χ |   |   |   |   |   |
|         |              | 12  | Χ       | Χ |   |   |   |   |   |   |   |   |   |
|         |              | 13  | Χ       |   |   |   |   |   |   |   |   |   |   |
|         | High Profile | 10  |         |   |   | Χ |   |   |   |   |   |   |   |
|         |              | 11  |         |   |   |   | Χ |   | Χ | Χ | Х |   | Χ |
|         |              | 12  |         |   |   |   | Χ | Χ | Χ |   |   |   |   |
|         |              | 13  |         |   |   |   | Χ |   |   | Х | Χ |   |   |
| 1B      | High Profile | 19  | Χ       |   |   |   | Χ |   |   | Х | Χ |   |   |
| 2A      | High Profile | 21  | Χ       | Χ |   |   | Χ | Χ | Χ | Х | Χ | Χ | Χ |
| 1C      | Low Profile  | 51  | Χ       |   |   |   |   |   |   |   |   |   |   |
|         | High Profile |     |         |   |   |   | Χ | Χ | Χ | Х | Χ | Χ | Χ |





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