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**ELFA artikelnr.**

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# DIP 14 SERIES REED RELAYS

MSS2 ■ MSS7 ■ PRMA ■ DSS7 ■ PRME ■ MVS2 ■ MVS7



## DESCRIPTION

CP Clare's epoxy molded DIP 14 Series offers a variety of contacts and schematics to meet the needs of a wide range of applications. It features the MVS2/MVS7 models designed for high reliability. The MSS2/7 DIPs are 1 form A relays equipped with the MYAD® all-position mounting switch. With switching up to 50 Watts and a 4000V isolation option, the DIP 14 Series is a relay package that allows for automatic insertion directly on PCBs as well as insertion into standard 14 pin DIP sockets.

## FEATURES

- All position mercury contacts on some models
- Stable contact resistance over life
- 4000 Vac input-output isolation
- Bounce free operation
- High insulation resistance
- Switching speed of 300 Hz
- Long life > 1 billion operations
- Epoxy molded for automatic board processing

## APPLICATIONS

- Automatic test equipment
- Process control
- Industrial
- Telecom
- Datacom
- High-end security systems
- Signaling
- Metering

## APPROVALS

- UL approval (DSS7 & PRMA)
- BSI approval (DSS7 & MSS7)
- BS EN 60950 approval (MVS7)
- CSA approval (PRMA)
- FCC68 approval (MSS2 & MSS7)

## RATINGS @ 25°C

| Parameter           | Min | Typ | Max  | Unit  |
|---------------------|-----|-----|------|-------|
| Switching Voltage   |     |     |      |       |
| PRMA/PRME/DSS7      |     |     | 200  | Volts |
| PRMA Form C         |     |     | 100  | Volts |
| MSS2/MSS7           |     |     | 500  | Volts |
| MVS2/MVS7           |     |     | 1000 | Volts |
| Switching Current   |     |     |      |       |
| PRMA/PRME/DSS7      |     |     | 0.5  | Amps  |
| PRMA Form C         |     |     | 0.25 | Amps  |
| MSS2/MSS7/MVS2/MVS7 |     |     | 2    | Amps  |
| Carry Current       |     |     |      |       |
| PRMA/PRME/DSS7      |     |     | 2    | Amps  |
| PRMA Form C         |     |     | 0.4  | Amps  |
| MSS2/MSS7           |     |     | 3    | Amps  |
| MVS2/MVS7           |     |     | 3    | Amps  |
| Switching Frequency |     |     |      |       |
| PRMA/PRME/DSS7      |     |     | 500  | Hz    |
| PRMA Form C         |     |     | 50   | Hz    |
| MSS2/MSS7/MVS2/MVS7 |     |     | 200  | Hz    |
| Contact Resistance  |     |     |      |       |
| PRMA/PRME/DSS7      |     |     | 150  | mΩ    |
| PRMA Form C         |     |     | 200  | mΩ    |
| MSS2/MSS7/MVS2/MVS7 |     |     | 100  | mΩ    |

(See detailed specifications for more information.)

### SPECIFICATIONS

All parameters are at 25°C unless otherwise stated.  
Operate voltage, release voltage, and coil resistance will change approximately 0.4%/°C as ambient temperature varies.

|                 |                 |              |
|-----------------|-----------------|--------------|
| <b>MSS2</b>     | <b>MSS7</b>     | <b>PRMA</b>  |
| Molded 8-pin    | Molded 4-pin    | Molded 8-pin |
| All position    | All position    | Form C       |
| Wetted contacts | Wetted contacts | Dry Reed     |

| Parameter                                     | Conditions  | Symbol           | Min             | Typ              | Max  | Min             | Typ              | Max  | Min             | Typ              | Max  | Units                |
|---|---|------------------|-----------------|------------------|------|-----------------|------------------|------|-----------------|------------------|------|----------------------|
| <b>Contact Ratings</b>                        |   |                  |                 |                  |      |                 |                  |      |                 |                  |      |                      |
| Switching Voltage                             | Max DC/PeakAC Resistive                             | V <sub>L</sub>   |                 |                  | 500  |                 |                  | 500  |                 |                  | 100  | Volts                |
| Switching Current                             | Max DC/PeakAC Resistive                             | I <sub>L</sub>   |                 |                  | 2    |                 |                  | 2    |                 |                  | 0.25 | Amps                 |
| Carry Current                                 | Max DC/PeakAC Resistive                             | I <sub>c</sub>   |                 |                  | 3    |                 |                  | 3    |                 |                  | 0.4  | Amps                 |
| Contact Rating                                | Max DC/PeakAC Resistive                             |                  |                 |                  | 50   |                 |                  | 50   |                 |                  | 3    | Watts                |
| Life Expectancy                               | Signal Level 1.0 V 10mA<br>Rated Loads <sup>1</sup> |                  |                 | 200              |      |                 | 200              |      |                 | 20               |      | x10 <sup>6</sup> Ops |
| Static Contact Resistance                     | 50mV, 10mA  | CR               |                 | 40               | 100  |                 | 65               | 100  |                 |                  | 200  | mΩ                   |
| Dynamic Contact Resistance                    | .5V, 50mA at 100 Hz,<br>1.5 msec                    | DCR              |                 | N/A              |      |                 | N/A              |      |                 | N/A              |      | mΩ                   |
| Contact Material                              |   |                  |                 | Hg               |      |                 | Hg               |      |                 | Rh               |      |                      |
| Hg Content                                    |   |                  |                 | 16               |      |                 | 16               |      |                 | N/A              |      | mgrams               |
| <b>Relay Specifications</b>                   |   |                  |                 |                  |      |                 |                  |      |                 |                  |      |                      |
| Insulation Resistance                         | Between all isolated pins<br>at 100V, 25°C, 40% RH  | IR               | 10 <sup>8</sup> | 10 <sup>10</sup> |      | 10 <sup>8</sup> | 10 <sup>10</sup> |      | 10 <sup>9</sup> | 10 <sup>10</sup> |      | Ω                    |
| Capacitance                                   | Across Open Contacts                                |                  |                 | 1.5              | 2    |                 | 1.2              | 2    |                 | 2.5              | 3    | pF                   |
|   | Open Contact to Coil                                |                  |                 | 3                | 4    |                 | 3                | 4    |                 | 3                | 3    | pF                   |
| Dielectric Strength                           | Between Contacts                                    |                  | 1400            |                  |      | 2000            |                  |      | 250             |                  |      | VDC/Peak AC          |
|   | Contacts to Coil                                    | I/O              | 1400            |                  |      | 5600            |                  |      | 1400            |                  |      | VDC/Peak AC          |
| Operate Time,<br>including bounce (PRMA only) | At Nominal Coil Voltage<br>10Hz Square Wave         | T <sub>OP</sub>  |                 | 1.2              | 1.75 |                 | 1.2              | 1.75 |                 | 1.5              | 2    | ms                   |
| Release Time                                  | Zener-Diode Suppression                             | T <sub>REL</sub> |                 | 1                | 1.50 |                 | 1                | 1.50 |                 | 1.5              | 3    | ms                   |
| <b>Environmental Ratings</b>                  |   |                  |                 |                  |      |                 |                  |      |                 |                  |      |                      |
| Storage Temperature                           |   | T <sub>A</sub>   | -40             |                  | +105 | -40             |                  | +105 | -40             |                  | +105 | °C                   |
| Operating Temperature                         |   | T <sub>O</sub>   | -38             |                  | +75  | -38             |                  | +75  | -40             |                  | +80  | °C                   |
| Soldering Temperature                         | Applied to pins, 5 sec. max.                        |                  |                 | 260              |      |                 | 260              |      |                 | 260              |      | °C                   |
| Vibration Resistance<br>(Survival)            | 10 Hz - 500 Hz<br>(5 Hz - 500 Hz for PRMA)          | G                |                 |                  | 10   |                 |                  | 10   |                 |                  | 10   | Gs                   |
| Shock Resistance (Survival)                   | 11±1ms, 1/2 Sine Wave                               | S                |                 |                  | 30   |                 |                  | 30   |                 |                  | 50   | Gs                   |
| Weight  |   |                  |                 | 2.3              |      |                 | 2.3              |      |                 | 1.5              |      | grams                |

<sup>1</sup> Refer to life graphs

# DIP 14 SERIES REED RELAYS

MSS2 ■ MSS7 ■ PRMA ■ DSS7 ■ PRME ■ MVS2 ■ MVS7

## SPECIFICATIONS

| Parameter                                       | Conditions  | Symbol           | PRMA<br>Molded 8-pin<br>Form A&B<br>Dry Reed |                  |      | DSS7<br>Molded 4-pin<br>Dry Reed |                  |      | PRME<br>Molded 8-pin<br>Low profile<br>Dry Reed |                  |      | Units                |
|---|---|------------------|--|------------------|------|----------------------------------|------------------|------|---|------------------|------|----------------------|
|   |   |                  | Min  | Typ              | Max  | Min                              | Typ              | Max  | Min   | Typ              | Max  |                      |
| <b>Contact Ratings</b>                          |   |                  |  |                  |      |                                  |                  |      |   |                  |      |                      |
| Switching Voltage                               | Max DC/PeakAC Resistive                             | V <sub>L</sub>   |  |                  | 200  |                                  |                  | 200  |   |                  | 200  | Volts                |
| Switching Current                               | Max DC/PeakAC Resistive                             | I <sub>L</sub>   |  |                  | 0.5  |                                  |                  | 0.5  |   |                  | 0.5  | Amps                 |
| Carry Current                                   | Max DC/PeakAC Resistive                             | I <sub>c</sub>   |  |                  | 2.0  |                                  |                  | 2.0  |   |                  | 2.0  | Amps                 |
| Contact Rating                                  | Max DC/PeakAC Resistive                             |                  |  |                  | 10   |                                  |                  | 10   |   |                  | 10   | Watts                |
| Life Expectancy                                 | Signal Level 1.0 V 10mA<br>Rated Loads <sup>1</sup> |                  | 300  | 500              |      | 300                              | 500              |      | 300   | 500              |      | x10 <sup>6</sup> Ops |
| Static Contact Resistance                       | 50mV, 10mA  | CR               |  |                  | 150  |                                  |                  | 150  |   |                  | 150  | mΩ                   |
| Dynamic Contact Resistance                      | .5V, 50mA at 100 Hz,<br>1.5 msec                    | DCR              |  | N/A              |      |                                  | N/A              |      |   | N/A              |      | mΩ                   |
| Contact Material                                |   |                  |  | Ru               |      |                                  | Ru               |      |   | Ru               |      |                      |
| <b>Relay Specifications</b>                     |   |                  |  |                  |      |                                  |                  |      |   |                  |      |                      |
| Insulation Resistance                           | Between all isolated pins<br>at 100V, 25°C, 40% RH  | IR               | 10 <sup>10</sup>                             | 10 <sup>12</sup> |      | 10 <sup>10</sup>                 | 10 <sup>12</sup> |      | 10 <sup>10</sup>                                | 10 <sup>12</sup> |      | Ω                    |
| Capacitance                                     | Across Open Contacts                                |                  |  | 0.7              | 1.00 |                                  | 0.7              | 1.00 |   | 0.8              | 1.00 | pF                   |
|   | Open Contact to Coil                                |                  |  | 1.5              | 2.00 |                                  | 1.5              | 2.00 |   | 1.5              | 2.00 | pF                   |
| Dielectric Strength                             | Between Contacts                                    |                  | 250  |                  |      | 250                              |                  |      | 250   |                  |      | VDC/Peak AC          |
|   | Contacts to Coil                                    | I/O              | 1400   |                  |      | 5600                             |                  |      | 1000  |                  |      | VDC/Peak AC          |
| Operate Time,<br>including bounce               | At Nominal Coil Voltage<br>10Hz Square Wave         | T <sub>OP</sub>  |  | 0.25             | 0.50 |                                  | 0.25             | 0.50 |   | 0.25             | 1.00 | ms                   |
| Release Time                                    | Zener-Diode Suppression                             | T <sub>REL</sub> |  | 0.25             | 0.50 |                                  | 0.25             | 0.50 |   | 0.2              | 1.00 | ms                   |
| <b>Environmental Ratings</b>                    |   |                  |  |                  |      |                                  |                  |      |   |                  |      |                      |
| Storage Temperature                             |   | T <sub>A</sub>   | -40  |                  | +105 | -40                              |                  | +105 | -40   |                  | +105 | °C                   |
| Operating Temperature                           |   | T <sub>O</sub>   | -40  |                  | +80  | -40                              |                  | +80  | -40   |                  | +80  | °C                   |
| Soldering Temperature                           | Applied to pins, 5 sec. max.                        |                  |  |                  | 260  |                                  |                  | 260  |   |                  | 260  | °C                   |
| Vibration Resistance <sup>2</sup><br>(Survival) | 5 Hz - 2000 Hz                                      | G                |  |                  | 20   |                                  |                  | 20   |   |                  | 20   | Gs                   |
| Shock Resistance<br>(Survival)                  | 11±1ms, 1/2 Sine Wave                               | S                |  |                  | 100  |                                  |                  | 100  |   |                  | 100  | Gs                   |
| Weight  |   |                  |  | 1.5              |      |                                  | 1.5              |      |   | 1.5              |      | grams                |

<sup>1</sup> Refer to life graphs.

<sup>2</sup> Use caution not to exceed vibration resistance limits while ultrasonically cleaning relays with DYAD switches. Contact CP Clare Engineering for more details/recommendations.

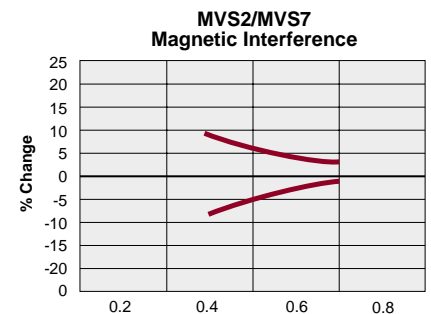
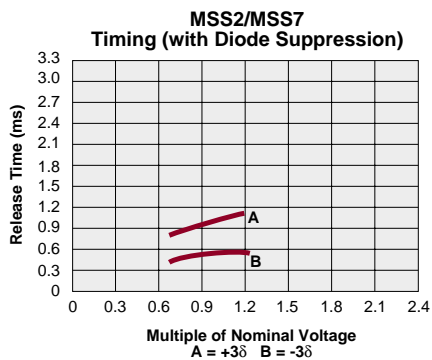
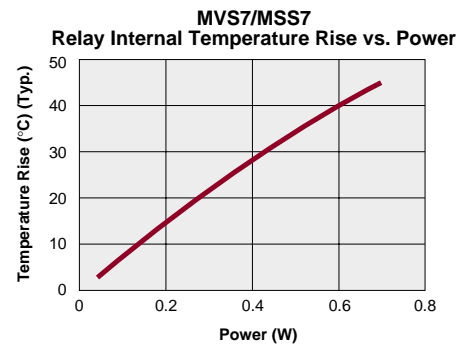
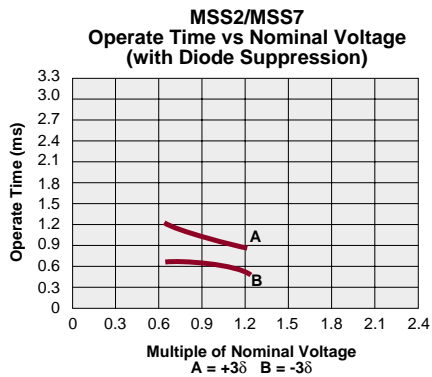
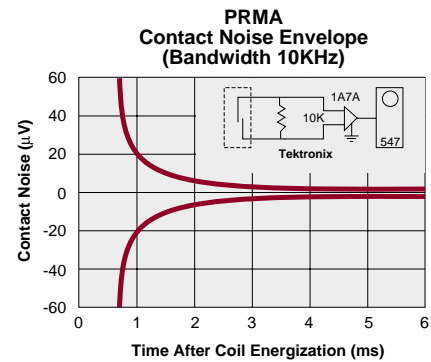
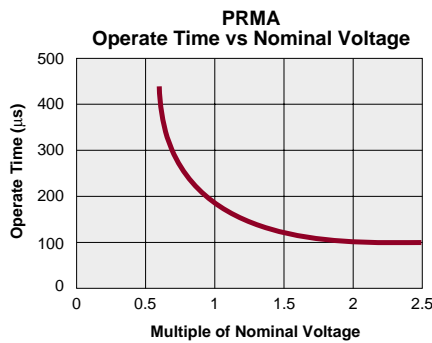
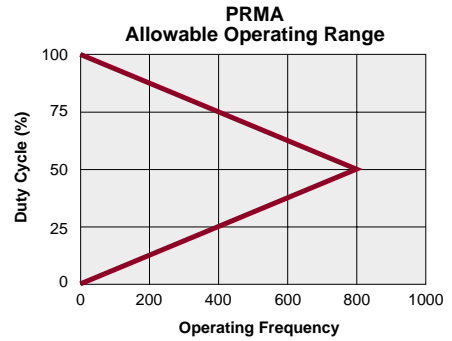
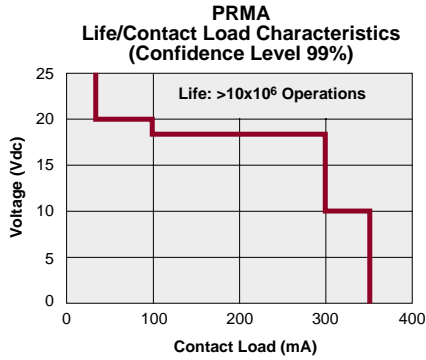
# DIP 14 SERIES REED RELAYS

MSS2 ■ MSS7 ■ PRMA ■ DSS7 ■ PRME ■ MVS2 ■ MVS7

## COIL SPECIFICATIONS

|                | Contact Form | Coil Voltage |     |      | Coil Resistance |      |      | Operate Voltage        |     |      | Release Voltage        |     |      | Nominal Input Power |     |     |
|----------------|--------------|--------------|-----|------|-----------------|------|------|------------------------|-----|------|------------------------|-----|------|---------------------|-----|-----|
| Units          |              | Volts        |     |      | Ω               |      |      | Volts                  |     |      | Volts                  |     |      | mW                  |     |     |
| Conditions     |              |              |     |      | +/- 10% (25°C)  |      |      | Must operate by (25°C) |     |      | Must release by (25°C) |     |      |                     |     |     |
| Part #         |              | Min          | Typ | Max  | Min             | Typ  | Max  | Min                    | Typ | Max  | Min                    | Typ | Max  | Min                 | Typ | Max |
| MSS2 1A05      | 1 Form A     |              | 5   | 11   | 126             | 140  | 154  | 0.5                    |     | 3.75 | 0.5                    |     | 3.75 |                     |     | 179 |
| MSS2 1A12      | 1 Form A     |              | 12  | 21   | 450             | 500  | 550  | 1                      |     | 9    | 1                      |     | 9    |                     |     | 288 |
| MSS2 1A24      | 1 Form A     |              | 24  | 44   | 1935            | 2150 | 2365 | 2                      |     | 18   | 2                      |     | 18   |                     |     | 268 |
| MSS7 1A05      | 1 Form A     |              | 5   | 11   | 126             | 140  | 154  | 0.5                    |     | 3.75 | 0.5                    |     | 3.75 |                     |     | 179 |
| MSS7 1A12      | 1 Form A     |              | 12  | 21   | 450             | 500  | 550  | 1                      |     | 9    | 1                      |     | 9    |                     |     | 288 |
| MSS7 1A24      | 1 Form A     |              | 24  | 43   | 1935            | 2150 | 2365 | 2                      |     | 18   | 2                      |     | 18   |                     |     | 268 |
| PRMA 1A05      | 1 Form A     |              | 5   | 21   | 450             | 500  | 550  | 0.8                    |     | 3.75 | 0.8                    |     | 3.75 |                     |     | 50  |
| PRMA 1A12      | 1 Form A     |              | 12  | 30   | 900             | 1000 | 1100 | 1                      |     | 9    | 1                      |     | 9    |                     |     | 144 |
| PRMA 1A24      | 1 Form A     |              | 24  | 44   | 1935            | 2150 | 2365 | 2                      |     | 18   | 2                      |     | 18   |                     |     | 268 |
| PRMA 1B05      | 1 Form B     |              | 5   | 6    | 450             | 500  | 550  | 0.8                    |     | 3.75 | 0.8                    |     | 3.75 |                     |     | 50  |
| PRMA 1B12      | 1 Form B     |              | 12  | 14.5 | 900             | 1000 | 1100 | 1                      |     | 9    | 1                      |     | 9    |                     |     | 144 |
| PRMA 1B24      | 1 Form B     |              | 24  | 29   | 1935            | 2150 | 2365 | 2                      |     | 18   | 2                      |     | 18   |                     |     | 268 |
| PRMA 1C05      | 1 Form C     |              | 5   | 12   | 180             | 200  | 220  | 0.8                    |     | 3.75 | 0.8                    |     | 3.75 |                     |     | 125 |
| PRMA 1C12      | 1 Form C     |              | 12  | 18   | 450             | 500  | 550  | 1                      |     | 9    | 1                      |     | 9    |                     |     | 288 |
| PRMA 1C24      | 1 Form C     |              | 24  | 32   | 1935            | 2150 | 2365 | 2                      |     | 18   | 2                      |     | 18   |                     |     | 268 |
| PRMA 2A05      | 2 Form A     |              | 5   | 11   | 126             | 140  | 154  | 0.8                    |     | 3.75 | 0.8                    |     | 3.75 |                     |     | 179 |
| PRMA 2A12      | 2 Form A     |              | 12  | 21   | 450             | 500  | 550  | 1                      |     | 9    | 1                      |     | 9    |                     |     | 288 |
| PRMA 2A24      | 2 Form A     |              | 24  | 44   | 1935            | 2150 | 2365 | 2                      |     | 18   | 2                      |     | 18   |                     |     | 268 |
| PRMA 10037     | 1 Form A     |              | 5   | 15   | 342             | 380  | 418  | 0.8                    |     | 3.75 | 0.8                    |     | 3.75 |                     |     | 66  |
| PRMA 10038     | 1 Form A     |              | 12  | 19   | 477             | 530  | 583  | 1                      |     | 9    | 1                      |     | 9    |                     |     | 272 |
| PRMA 10039     | 1 Form A     |              | 24  | 32   | 1800            | 2000 | 2200 | 2                      |     | 18   | 2                      |     | 18   |                     |     | 288 |
| DSS7 1A05      | 1 Form A     |              | 5   | 21   | 450             | 500  | 550  | 0.8                    |     | 3.75 | 0.8                    |     | 3.75 |                     |     | 50  |
| DSS7 1A12      | 1 Form A     |              | 12  | 30   | 900             | 1000 | 1100 | 1                      |     | 9    | 1                      |     | 9    |                     |     | 144 |
| DSS7 1A24      | 1 Form A     |              | 24  | 44   | 1935            | 2150 | 2365 | 2                      |     | 18   | 2                      |     | 18   |                     |     | 268 |
| PRME 25005     | 1 Form A     |              | 5   | 19   | 450             | 500  | 550  | 0.8                    |     | 3.8  | 0.8                    |     | 3.8  |                     |     | 50  |
| PRME 15005     | 1 Form A     |              | 5   | 15   | 342             | 380  | 418  | 1                      |     | 3.5  | 1                      |     | 3.5  |                     |     | 66  |
| PRME 15002     | 1 Form A     |              | 12  | 19   | 477             | 530  | 583  | 1                      |     | 8    | 1                      |     | 8    |                     |     | 272 |
| PRME 15003     | 1 Form A     |              | 24  | 32   | 1800            | 2000 | 2200 | 2                      |     | 16   | 2                      |     | 16   |                     |     | 288 |
| MVS2 1A05(A,B) | 1 Form A     |              | 5   | 7    | 94.5            | 105  | 116  | 0.5                    |     | 3.75 | 0.5                    |     | 3.75 |                     |     | 238 |
| MVS2 1A12(A,B) | 1 Form A     |              | 12  | 15   | 450             | 500  | 550  | 1                      |     | 9    | 1                      |     | 9    |                     |     | 288 |
| MVS2 1A24(A,B) | 1 Form A     |              | 24  | 30   | 1935            | 2150 | 2365 | 2                      |     | 18   | 2                      |     | 18   |                     |     | 268 |
| MVS7 1A05(S)   | 1 Form A     |              | 5   | 7    | 94.5            | 105  | 116  | 0.5                    |     | 3.75 | 0.5                    |     | 3.75 |                     |     | 238 |
| MVS7 1A12(S)   | 1 Form A     |              | 12  | 15   | 450             | 500  | 550  | 1                      |     | 9    | 1                      |     | 9    |                     |     | 288 |
| MVS7 1A24(S)   | 1 Form A     |              | 24  | 30   | 1935            | 2150 | 2365 | 2                      |     | 18   | 2                      |     | 18   |                     |     | 268 |

## PERFORMANCE GRAPHS



X = Distance (in.) between centers of adjacent relays.  
(For distance between relay bodies, subtract .400)

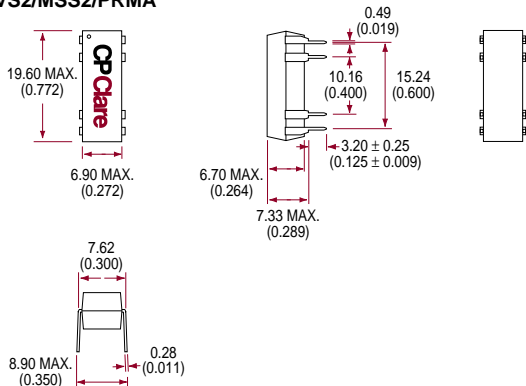
# DIP 14 SERIES REED RELAYS

MSS2 ■ MSS7 ■ PRMA ■ DSS7 ■ PRME ■ MVS2 ■ MVS7

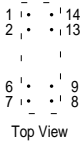
## MECHANICAL DIMENSIONS

mm  
(inches)

### MVS2/MSS2/PRMA

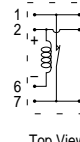


### PRMA 1A



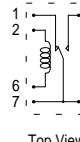
Options:  
Diode - pin #2 is positive  
Electrostatic shield - pin 9

### PRMA 1B



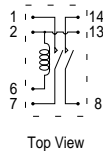
Options:  
Diode - pin #2 is positive  
Electrostatic shield - pin 9

### PRMA 1C



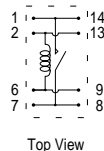
Options:  
Diode - pin #2 is positive  
Electrostatic shield - pin 9

### PRMA 2A

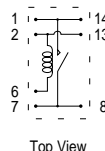


Options:  
Diode - pin #2 is positive  
Electrostatic shield - pin 9

### PRMA 10037/10038/10039

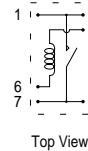
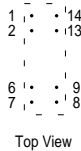
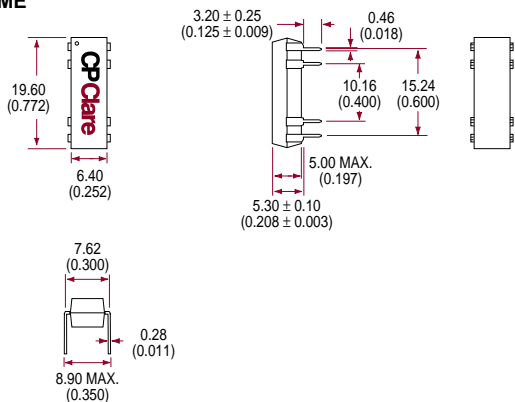


### MVS2/MSS2



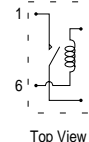
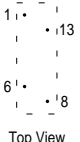
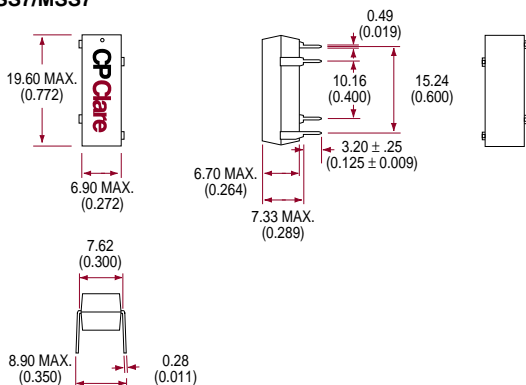
\* MVS2 only must be mounted vertically with pin #1 UP.

### PRME



Options:  
Diode - pin #13 is positive  
Electrostatic shield - pin 9

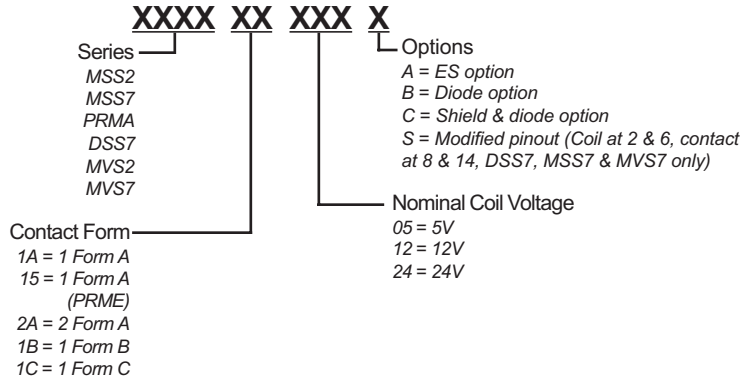
### DSS7/MSS7



MVS7 must be mounted vertically. Pin #1 is up.

## ORDERING INFORMATION

A complete part number is represented by the digits below. For example, the MVS21A05 is a model 2 MVS relay with a 1 Form A contact form, a nominal voltage of 5V and no extra options.



### Ordering Information Special Schematics

PRME 25005  
PRME 15005  
PRME 15002  
PRME 15003

PRMA 10037  
PRMA 10038  
PRMA 10039

*These represent full part numbers.*