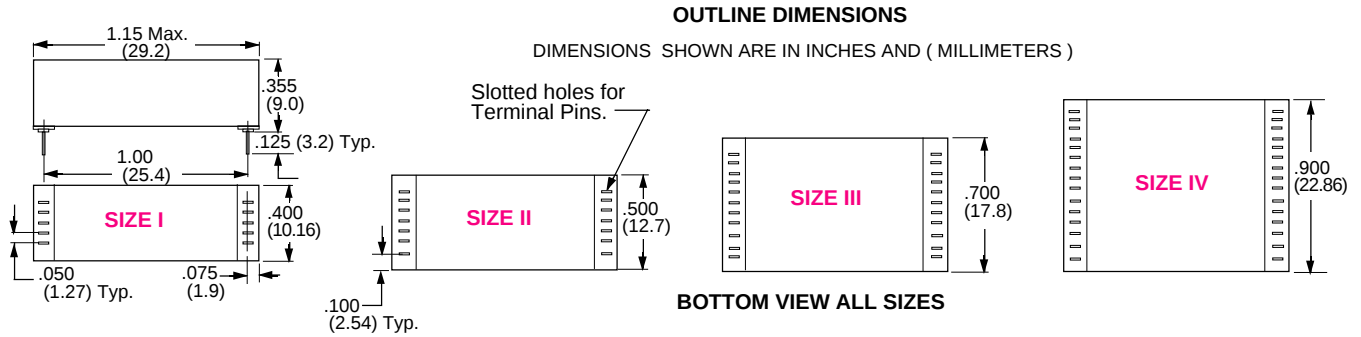
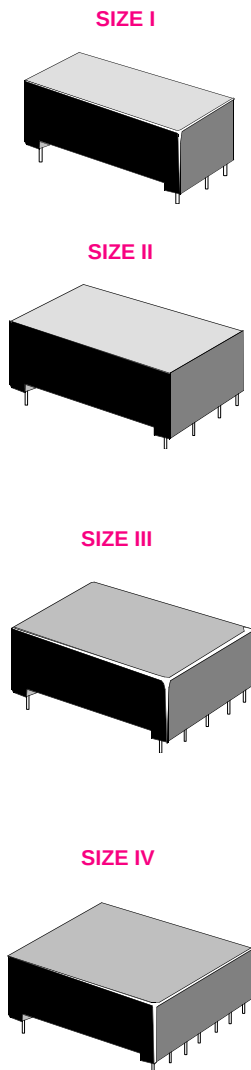


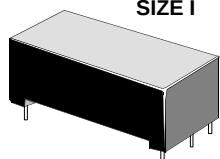


### STANDARD PRINTED CIRCUIT RELAY HAS 1.00" X 0.1" GRID SPACING



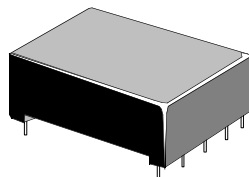
| RELAY CLASS                                                                                                              | 101/193                                                                 | 104/193                                                            | 131                                                                   | 134                                                      |
|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------|
| <b>CONTACT CONFIGURATION:</b>                                                                                            | SPST-NO<br>SPST-NO Latching (SPST-NO)<br>3PST-NO Latching up to 6PST-NO | SPDT, DPDT for 104 Series<br><br>SPDT,DPDT, 3PDT,4PDT (193 Series) | SPST-NO or DPST-NO Mercury                                            | Mercury (SPDT)<br>Mercury DPDT                           |
| <b>CONTACT RATING MAX. (Resistive Load)</b><br>SWITCHING VOLTAGE MAX.<br>SWITCHING CURRENT MAX.<br>CARRY CURRENT MAX.    | 10 VA<br>200DC/130 AC<br>0.5 AMPS<br>2 AMPS                             | 4VA<br>100 VDC<br>0.5 AMPS<br>1 AMPS                               | 50VA<br>500 VDC<br>2 AMPS<br>3 AMPS                                   | 50VA<br>500 VDC<br>2 AMPS<br>3 AMPS                      |
| <b>INITIAL CONTACT RESISTANCE</b><br>( IN MILLIOHMS ):                                                                   | 200 Milliohms Max.                                                      |                                                                    | 100 Milliohms Max. Contact resistance Stability $\pm 10\%$ over Life. |                                                          |
| <b>INSULATION RESISTANCE (Ohms)</b><br>TESTED AT 100 VDC:                                                                | 10 <sup>9</sup> Min.                                                    |                                                                    | 10 <sup>10</sup> Min.                                                 | 10 <sup>10</sup> Min.                                    |
| <b>DIELECTRIC STRENGTH:</b><br>MIN. ACROSS OPEN CONTACTS:<br>MIN. BETWEEN MUTUALLY INSULATED POINTS:                     | 200 VDC                                                                 |                                                                    | 1000 VDC                                                              | 1000 VDC                                                 |
|                                                                                                                          | 500 VDC                                                                 |                                                                    | 1000 VDC                                                              | 1000 VDC                                                 |
| <b>CAPACITANCE:</b> ( non-shielded relay)<br>ACROSS OPEN CONTACTS:<br>OPEN CONTACTS TO COIL:<br>CLOSED CONTACTS TO COIL: | 3pf Typical<br>Form "A" 2.0 pF Typ.<br>Form "C" 3.0pF Typ.              |                                                                    | .3pF<br>2.0 pF<br>3.0pF                                               | .9pF<br>2.0 pF<br>2.5pF                                  |
| <b>TEMPERATURE:</b><br>MAX. AMBIENT OPERATING ( °C )                                                                     | 85 °C or ( 120 °C -70° x [ Coil Power] ) whichever is lower             |                                                                    |                                                                       |                                                          |
| <b>TEMPERATURE:</b><br>MIN. AMBIENT OPERATING ( °C )                                                                     | - 40°C                                                                  |                                                                    | - 37°C                                                                |                                                          |
| <b>STORAGE TEMPERATURE:</b>                                                                                              | - 60°C to + 105°C                                                       |                                                                    | - 40°C to + 105°C                                                     |                                                          |
| <b>MOUNTING POSITION:</b>                                                                                                | ANY                                                                     |                                                                    | Vertical $\pm 15^\circ$                                               |                                                          |
| <b>LIFE AT RATED LOAD:</b><br>With appropriate Contact protection<br>( End of life 1 Ohm )                               | 10 Million Operations<br>100 Million Operations at Low level            |                                                                    | 40 x 10 <sup>8</sup><br>3 x 10 <sup>8</sup> at low level              | 50 x 10 <sup>8</sup><br>5 x 10 <sup>8</sup> at low level |
| <b>OPERATE TIME:</b> (Typical- in Micro-Sec.))                                                                           | 1.0 mS, for N.O.<br>1.0 mS, for N.C.                                    |                                                                    | 2.0 mS, for N.O.                                                      | 2300 $\mu$ S<br>2000 $\mu$ S                             |
| <b>TYPICAL RELEASE TIME:</b> (in Micro-Sec.)<br>Diode Suppression:<br>No Suppression:                                    | 1.0 mS, for N.O.<br>1.5 mS, for N.C.                                    |                                                                    | 1.0 mS for NO<br>1.5 mS for NC                                        | 2.0 mS<br>2.5 mS                                         |
| <b>PACKAGING:</b>                                                                                                        | Dust covered, Epoxy Encapsulated is Standard.                           |                                                                    |                                                                       |                                                          |

SIZE I

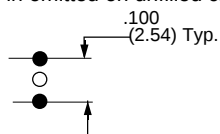


PIN SPACING OF 0.100" IS STANDARD. PIN SPACING OF 0.150 IS AVAILABLE ON SPECIAL ORDER. ALSO AVAILABLE ARE MODELS WITH ELECTROSTATIC SHIELDS. CONSULT FACTORY FOR PART NUMBERS. NON-STANDARD SCHEMATICS AND PIN-OUTS CAN ALSO BE PRODUCED FOR SPECIFIC CUSTOMER REQUIREMENTS.

Spacing between filled in circles in schematics are on a .100 Grid Pattern. Pin omitted on unfilled circles.



SIZE III



| CASE SIZE                   | CIRCUIT DIAGRAM TOP VIEW | PART NUMBERS                           | COIL MEASURED AT 25°C |                                  |                   |                            |                    | MAX. CONTACT RATING |                             |               |
|-----------------------------|--------------------------|----------------------------------------|-----------------------|----------------------------------|-------------------|----------------------------|--------------------|---------------------|-----------------------------|---------------|
|                             |                          |                                        | NOMINAL INPUT VOLTAGE | MAXIMUM PULL-IN                  | MINIMUM DROPOUT   | NOMINAL RESIS-TANCE (OHMS) | NOMINAL POWER (mW) | MAX. SWITCHING LOAD | SWITCHING CURRENT & VOLTAGE | CARRY CURRENT |
| SPST-NO                     |                          |                                        |                       |                                  |                   |                            |                    |                     |                             |               |
| I                           |                          | W101MPCX-2<br>W101MPCX-3               | 12<br>24              | 9.0<br>18.0                      | 1.0<br>2.0        | 1400<br>3300               | 102<br>175         | 10 VA               | 0.5 AMP<br>200 VDC          | 2 AMPS        |
| 3PST-NO                     |                          |                                        |                       |                                  |                   |                            |                    |                     |                             |               |
| III                         |                          | W101MPCX-5<br>W101MPCX-6<br>W101MPCX-7 | 5<br>12<br>24         | 4.0<br>9.0<br>18.0               | 0.5<br>1.0<br>2.0 | 90<br>430<br>1500          | 280<br>340<br>380  | 10 VA               | 0.5 AMP<br>200 VDC          | 2 AMPS        |
| SPST-NO      MAGNETIC LATCH |                          |                                        |                       |                                  |                   |                            |                    |                     |                             |               |
| III                         |                          | W101LMPCX-16<br>W101LMPCX-17           | 5/5<br>12/12          | 3.8<br>9.0<br>To Set<br>or Reset | -<br>-            | 425/425<br>2500/2500       | 60<br>60           | 10 VA               | 0.5 AMP<br>200 VDC          | 2 AMPS        |

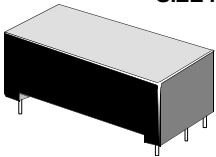
PART NUMBERS SHOWN AVAILABLE THRU STOCKING DISTRIBUTION

# CLASS 131 MERCURY

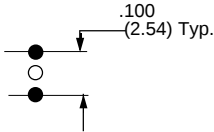
MINIATURE  
REED

PIN SPACING OF 0.100" IS STANDARD. PIN SPACING OF 0.150 IS AVAILABLE ON SPECIAL ORDER. ALSO AVAILABLE ARE MODELS WITH ELECTROSTATIC SHIELDS. CONSULT FACTORY FOR PART NUMBERS. NON-STANDARD SCHEMATICS AND PIN-OUTS CAN ALSO BE PRODUCED FOR SPECIFIC CUSTOMER REQUIREMENTS.

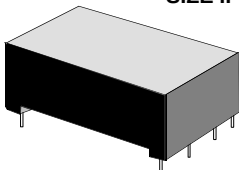
SIZE I

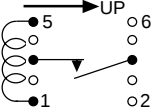
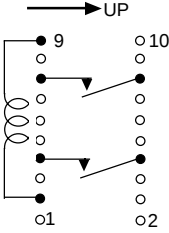


Spacing between filled in circles in schematics are on a .100 Grid Pattern. Pin omitted on unfilled circles.



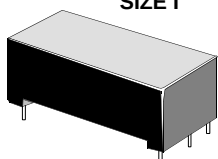
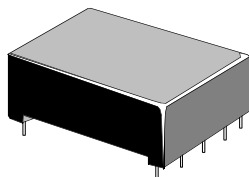
SIZE II



| SPST-NO    MERCURY |                                                                                     |                          |    |      |     |      |     |       |                    |        |
|--------------------|-------------------------------------------------------------------------------------|--------------------------|----|------|-----|------|-----|-------|--------------------|--------|
| 1                  |   | W131MPCX-3<br>W131MPCX-4 | 12 | 9.0  | 1.0 | 330  | 435 | 50 VA | 2.0 AMP<br>500 VDC | 3 AMPS |
|                    |                                                                                     |                          | 24 | 18.0 | 2.0 | 1400 | 410 |       |                    |        |
| DPST-NO    MERCURY |                                                                                     |                          |    |      |     |      |     |       |                    |        |
| I                  |  | W131MPCX-7<br>W131MPCX-8 | 12 | 9.0  | 1.0 | 230  | 626 | 50 VA | 2.0 AMP<br>500 VDC | 3 AMPS |
|                    |                                                                                     |                          | 24 | 18.0 | 2.0 | 1200 | 480 |       |                    |        |

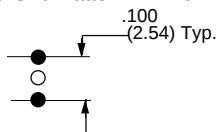
PART NUMBERS SHOWN AVAILABLE THRU STOCKING DISTRIBUTION

For Class 131 allow a minimum of 30 seconds after mounting for excess Mercury to clear from the contacts before using.

**SIZE I**

**SIZE III**


PIN SPACING OF .100" IS STANDARD. PIN SPACING OF .150 IS AVAILABLE ON SPECIAL ORDER. ALSO AVAILABLE ARE MODELS WITH ELECTROSTATIC SHIELDS. CONSULT FACTORY FOR PART NUMBERS. NONSTANDARD SCHEMATICS AND PIN-OUTS CAN ALSO BE PRODUCED FOR SPECIFIC CUSTOMER REQUIREMENTS.

Spacing between filled in circles in schematics are on a .100 Grid Pattern. Pin omitted on unfilled circles.



| CASE SIZE | CIRCUIT DIAGRAM TOP VIEW | PART NUMBERS                                 | COIL MEASURED AT 25°C |                    |                   |                           |                    | MAX. CONTACT RATING |                             |               |
|-----------|--------------------------|----------------------------------------------|-----------------------|--------------------|-------------------|---------------------------|--------------------|---------------------|-----------------------------|---------------|
|           |                          |                                              | NOMINAL INPUT VOLTAGE | MAXIMUM PULL-IN    | MINIMUM DROPOUT   | NOMINAL RESISTANCE (OHMS) | NOMINAL POWER (mW) | MAX. SWITCHING LOAD | SWITCHING CURRENT & VOLTAGE | CARRY CURRENT |
| SPDT      |                          |                                              |                       |                    |                   |                           |                    |                     |                             |               |
| I         |                          | W104MPCX-3                                   | 24                    | 18.0               | 2.0               | 2600                      | 220                | 4 VA                | 0.25 AMP 100VDC             | 0.5 AMPS      |
| DPDT      |                          |                                              |                       |                    |                   |                           |                    |                     |                             |               |
| I         |                          | W104MPCX-6                                   | 12                    | 9.0                | 1.0               | 230                       | 626                | 4 VA                | 0.25 AMP 100VDC             | 0.5 AMPS      |
| DPDT      |                          |                                              |                       |                    |                   |                           |                    |                     |                             |               |
| I         |                          | W104MPCX-149<br>W104MPCX-150<br>W104MPCX-151 | 5<br>12<br>24         | 4.0<br>9.0<br>18.0 | 0.5<br>1.0<br>2.0 | 45<br>230<br>1200         | 556<br>626<br>480  | 4 VA                | 0.25 AMP 100VDC             | 0.5 AMPS      |

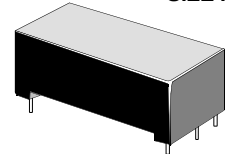
PART NUMBERS SHOWN AVAILABLE THRU STOCKING DISTRIBUTION

# CLASS 134 MERCURY

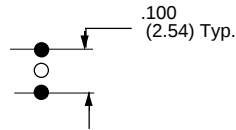
MINIATURE  
REED

PIN SPACING OF .100" IS STANDARD. PIN SPACING OF .150 IS AVAILABLE ON SPECIAL ORDER. ALSO AVAILABLE ARE MODELS WITH ELECTROSTATIC SHIELDS. CONSULT FACTORY FOR PART NUMBERS. NONSTANDARD SCHEMATICS AND PIN-OUTS CAN ALSO BE PRODUCED FOR SPECIFIC CUSTOMER REQUIREMENTS.

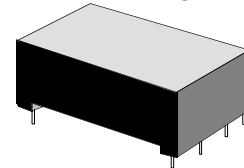
SIZE I



Spacing between filled in circles in schematics are on a .100 Grid Pattern. Pin omitted on unfilled circles.



SIZE II

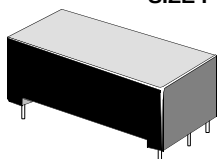


| DPDT MERCURY                     |  |                                        |               |                    |                   |                   |                   |       |                    |          |
|----------------------------------|--|----------------------------------------|---------------|--------------------|-------------------|-------------------|-------------------|-------|--------------------|----------|
| I                                |  | W134MPCX-7<br>W134MPCX-8               | 5<br>12       | 4.0<br>9.6         | 0.5<br>1.0        | 45<br>230         | 560<br>620        | 50 VA | 1.0 AMP<br>500 VDC | 2.0 AMPS |
|                                  |  |                                        |               |                    |                   |                   |                   |       |                    |          |
| DPDT MERCURY WITH CLAMPING DIODE |  |                                        |               |                    |                   |                   |                   |       |                    |          |
| I                                |  | W134MPCX-10<br>W134MPCX-11             | 5<br>12       | 4.0<br>9.6         | 1.0<br>1.0        | 45<br>230         | 560<br>620        | 50 VA | 1.0 AMP<br>500 VDC | 2.0 AMPS |
|                                  |  |                                        |               |                    |                   |                   |                   |       |                    |          |
| SPDT MERCURY                     |  |                                        |               |                    |                   |                   |                   |       |                    |          |
| I                                |  | W134MPCX-1<br>W134MPCX-2<br>W134MPCX-3 | 5<br>12<br>24 | 4.0<br>9.0<br>18.0 | 0.5<br>1.0<br>2.0 | 60<br>330<br>1400 | 417<br>435<br>410 | 50 VA | 1.0 AMP<br>500 VDC | 2.0 AMPS |
|                                  |  |                                        |               |                    |                   |                   |                   |       |                    |          |

PART NUMBERS SHOWN AVAILABLE THRU STOCKING DISTRIBUTION

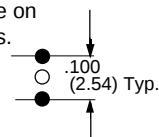
For Class 134 allow a minimum of 30 seconds after mounting for excess Mercury to clear from the contacts before using.

SIZE I

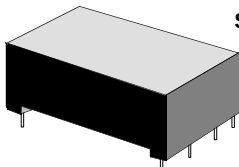


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Spacing between filled in circles in schematics are on .100 Grid Patterns. Pin omitted on unfilled circles.



SIZE II



| CASE SIZE | CIRCUIT DIAGRAM<br>(Top View) | PART NUMBERS  | COIL MEASURED AT 25°C |                 |                 |                            |                    | MAX. CONTACT RATING |                             |               |
|-----------|-------------------------------|---------------|-----------------------|-----------------|-----------------|----------------------------|--------------------|---------------------|-----------------------------|---------------|
|           |                               |               | NOMINAL INPUT VOLTAGE | MAXIMUM PULL-IN | MINIMUM DROPOUT | NOMINAL RESIS-TANCE (OHMS) | NOMINAL POWER (mW) | MAX. SWITCHING LOAD | SWITCHING CURRENT & VOLTAGE | CARRY CURRENT |
| SPST-N.O. |                               |               |                       |                 |                 |                            |                    |                     |                             |               |
| I         |                               | W193RE1A3-5S  | 5                     | 4.0             | 0.5             | 500                        | 50                 | 10 VA               | 0.5 AMP<br>200 VDC          | 2 AMPS        |
|           |                               | W193RE1A3-12G | 12                    | 9.0             | 1.0             | 420                        | 350                |                     |                             |               |
|           |                               | W193RE1A3-24G | 24                    | 18.0            | 2.0             | 2300                       | 250                |                     |                             |               |
| SPDT      |                               |               |                       |                 |                 |                            |                    |                     |                             |               |
| I         |                               | W193RE1C3-5S  | 5                     | 4.0             | 0.5             | 350                        | 70                 | 4 VA                | 0.5 AMP<br>100 VDC          | 1 AMP         |
|           |                               | W193RE1C3-12G | 12                    | 9.0             | 1.0             | 420                        | 350                |                     |                             |               |
|           |                               | W193RE1C3-24G | 24                    | 18.0            | 2.0             | 2300                       | 250                |                     |                             |               |
| DPST-N.O. |                               |               |                       |                 |                 |                            |                    |                     |                             |               |
| I         |                               | W193RE2A3-6G  | 5                     | 4.0             | 0.5             | 70                         | 360                | 10 VA               | 0.5 AMP<br>200 VDC          | 2 AMP         |
|           |                               | W193RE2A3-12G | 12                    | 9.0             | 1.0             | 280                        | 500                |                     |                             |               |
|           |                               | W193RE2A3-24G | 24                    | 18.0            | 2.0             | 1500                       | 390                |                     |                             |               |
| DPDT      |                               |               |                       |                 |                 |                            |                    |                     |                             |               |
| I         |                               | W193RE2C3-6G  | 5                     | 4.0             | 0.5             | 70                         | 360                | 4 VA                | 0.5 AMP<br>100 VDC          | 1 AMP         |
|           |                               | W193RE2C3-12G | 12                    | 9.0             | 1.0             | 280                        | 500                |                     |                             |               |
|           |                               | W193RE2C3-24G | 24                    | 18.0            | 2.0             | 1500                       | 390                |                     |                             |               |

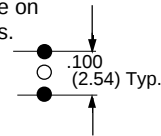
PART NUMBERS SHOWN AVAILABLE THRU STOCKING DISTRIBUTION

# CLASS 193 DRY MINIATURE REED RELAY

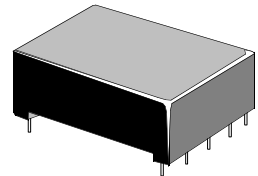
MINIATURE  
REED

PIN SPACING OF 0.100" IS STANDARD. PIN SPACING OF 0.150 IS AVAILABLE ON SPECIAL ORDER. ALSO AVAILABLE ARE MODELS WITH ELECTROSTATIC SHIELDS. CONSULT FACTORY FOR PART NUMBERS. NONSTANDARD SCHEMATICS AND PIN-OUTS CAN ALSO BE PRODUCED FOR SPECIFIC CUSTOMER REQUIREMENTS.

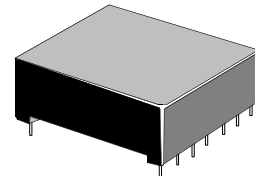
Spacing between filled in circles in schematics are on .100 Grid Patterns. Pin omitted on unfilled circles.



SIZE III

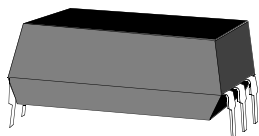


SIZE IV



| CASE SIZE | CIRCUIT DIAGRAM<br>(Top View) | PART NUMBERS  | COIL MEASURED AT 25°C |                 |                 |                           |                    | MAX. CONTACT RATING |                             |               |
|-----------|-------------------------------|---------------|-----------------------|-----------------|-----------------|---------------------------|--------------------|---------------------|-----------------------------|---------------|
|           |                               |               | NOMINAL INPUT VOLTAGE | MAXIMUM PULL-IN | MINIMUM DROPOUT | NOMINAL RESISTANCE (OHMS) | NOMINAL POWER (mW) | MAX. SWITCHING LOAD | SWITCHING CURRENT & VOLTAGE | CARRY CURRENT |
| 3PST-N.O. |                               |               |                       |                 |                 |                           |                    |                     |                             |               |
| III       |                               | W193RE3A3-6G  | 5                     | 4.0             | 0.5             | 50                        | 500                | 10 VA               | 0.5 AMP<br>200 VDC          | 2 AMP         |
|           |                               | W193RE3A3-12G | 12                    | 9.0             | 1.0             | 210                       | 690                |                     |                             |               |
|           |                               | W193RE3A3-24G | 24                    | 18.0            | 2.0             | 1150                      | 500                |                     |                             |               |
| 3PDT      |                               |               |                       |                 |                 |                           |                    |                     |                             |               |
| III       |                               | W193RE3C3-6G  | 5                     | 4.0             | 0.5             | 50                        | 500                | 4 VA                | 0.5 AMP<br>100 VDC          | 1 AMP         |
|           |                               | W193RE3C3-12G | 12                    | 9.0             | 1.0             | 210                       | 690                |                     |                             |               |
|           |                               | W193RE3C3-24G | 24                    | 18.0            | 2.0             | 1150                      | 500                |                     |                             |               |
| 4PST-N.O. |                               |               |                       |                 |                 |                           |                    |                     |                             |               |
| III       |                               | W193RE4A3-6G  | 5                     | 4.0             | 0.5             | 50                        | 500                | 10 VA               | 0.5 AMP<br>200 VDC          | 2 AMP         |
|           |                               | W193RE4A3-12G | 12                    | 9.0             | 1.0             | 210                       | 690                |                     |                             |               |
|           |                               | W193RE4A3-24G | 24                    | 18.0            | 2.0             | 1150                      | 500                |                     |                             |               |
| 4PDT      |                               |               |                       |                 |                 |                           |                    |                     |                             |               |
| IV        |                               | W193RE4C3-6G  | 5                     | 4.0             | 0.5             | 35                        | 720                | 4 VA                | 0.5 AMP<br>100 VDC          | 1 AMP         |
|           |                               | W193RE4C3-12G | 12                    | 9.0             | 1.0             | 140                       | 1030               |                     |                             |               |
|           |                               | W193RE4C3-24G | 24                    | 18.0            | 2.0             | 770                       | 750                |                     |                             |               |

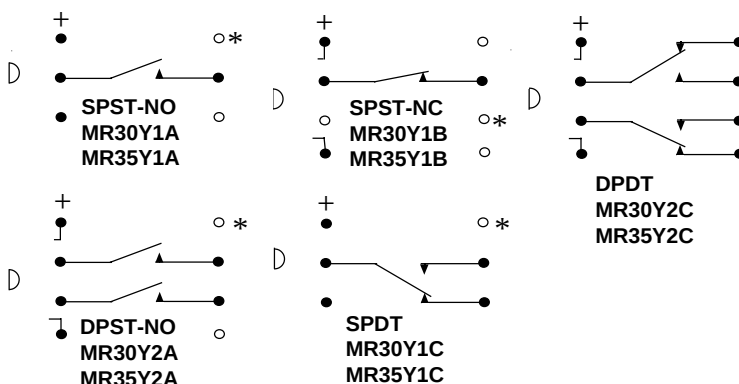
PART NUMBERS SHOWN AVAILABLE THRU STOCKING DISTRIBUTION



The MR-Y Series epoxy molded miniature reed relay has terminal pins on each end and spaced 1 inch apart. It is available with two grid spacings - 0.1 inch or 0.15 inch. Available contacts range from SPST-NO to DPDT configurations. As an option, Mercury reeds are available in limited contact configurations. Lower power coils are also available in addition to optional diode across the coil and electrostatic shielding.

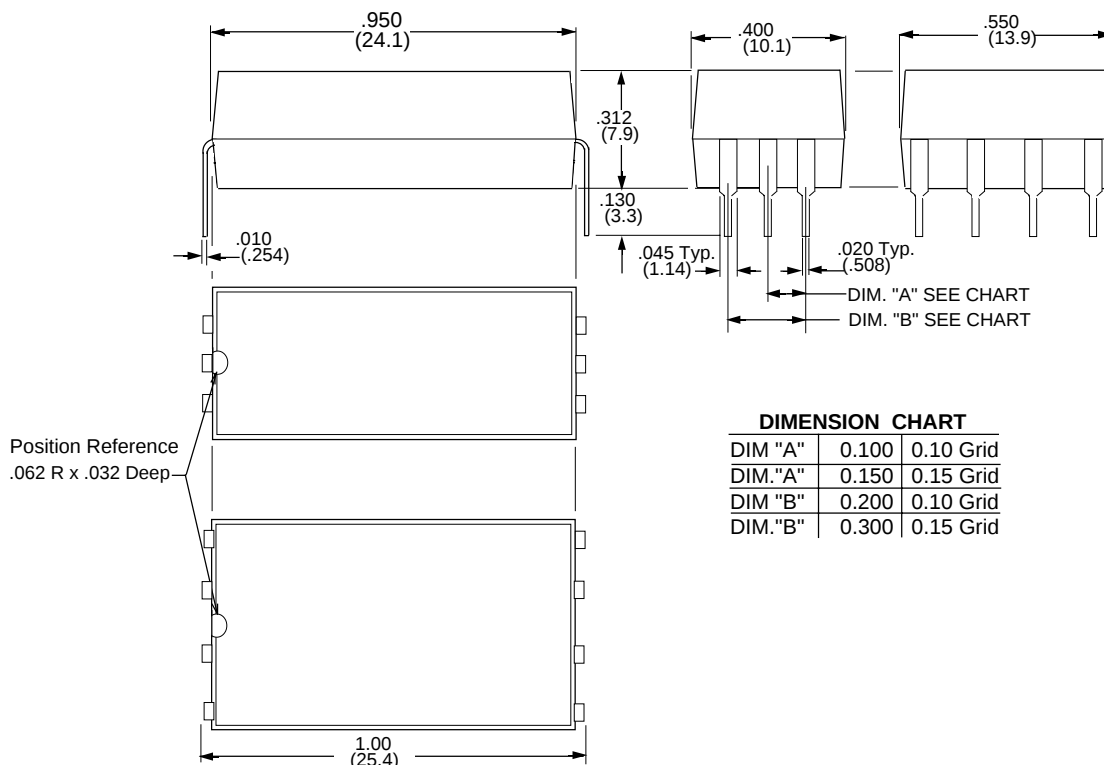
## WIRING DIAGRAM

Top View



## OUTLINE DIMENSIONS

Dimensions shown are in Inches and (Millimeter)



## SPECIFICATIONS MR-Y

(Not all Data applies to HG Relays)

|                         |                                                                                                                                                                                                                               |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Package Material:       | Epoxy, molded                                                                                                                                                                                                                 |
| Contact Material:       | Rhodium                                                                                                                                                                                                                       |
| Dielectric Strength:    | 200 V rms Across Open Contacts<br>1500 V rms All other points                                                                                                                                                                 |
| Insulation Resistance:  | 1000 Megohms Min.                                                                                                                                                                                                             |
| Capacitance:            | 0.4 pF typical coil to contacts                                                                                                                                                                                               |
| Shock Resistance:       | 50 G's                                                                                                                                                                                                                        |
| Vibration Resistance:   | 20 G's to 2000 Hz                                                                                                                                                                                                             |
| Operate & Release Time: | 2 Milliseconds Max.                                                                                                                                                                                                           |
| Life:                   | 10 Million operations at rated load SPST, DPST-NO & NC<br>100 Million operations no load SPST, DPST-NO & NC<br>5 Million operations at rated load SPDT, DPDT contacts.<br>50 Million operations no load, SPDT, DPDT contacts. |

### COIL DATA

| Power Consumption (mW) - Coil Resistance,<br>Nominal Voltage $\pm 10\%$ @ 25°C |      |     |            |     |
|--------------------------------------------------------------------------------|------|-----|------------|-----|
| SPST, DPST                                                                     |      |     | SPDT, DPDT |     |
| VDC                                                                            | OHMS | mW  | OHMS       | mW  |
| 5                                                                              | 150  | 167 | 80         | 313 |
| 12                                                                             | 575  | 250 | 320        | 450 |
| 24                                                                             | 2150 | 268 | 1500       | 384 |

### CONTACT DATA

| Material - Rhodium on Dry Reeds |          |         |    |
|---------------------------------|----------|---------|----|
| Contacts                        | Max. VDC | Max. mA | VA |
| SPST-NO                         | 200      | 500     | 10 |
| SPST-NC                         | 200      | 500     | 10 |
| SPDT, DPDT                      | 28       | 250     | 3  |
| SPST-NO (HG)                    | 500      | 2000    | 50 |
| SPDT, DPDT(HG)                  | 200      | 1000    | 28 |

Must operate at 80% of nominal voltage @ 25°C

Low Power Coils available:

- Single Pole - 25mW
- Double Pole - 65mW

**Magnecraft & Struthers-Dunn**

### ORDERING CODE

Typical Type No.

**MR30Y 2A RV -12D**

#### Series

**MR30Y** - 0.1 grid, end terminal

Min. P.C. Reed Relay

**MR35Y** - 0.15 grid, end terminal

Min. P.C. Reed Relay

#### Contact Arrangements

1A - SPST-NO

2A - DPST-NO

1B - SPST-NC

1C - SPDT

2C - DPDT

#### Options

Electrostatic Shield (see wiring diagrams) - **CODE E**

Low Power Coils (Dry Reeds Only) - **CODE R**

Diode across Coil (Observe Polarity) - **CODE V**

Mercury Reed Contact, position sensitive

SPST-NO or SPDT - **CODE Z**

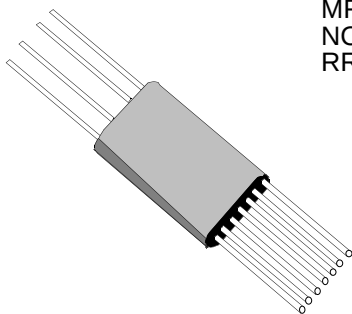
#### Coil Voltage (DC only)

**DC: 5, 12, 24** (Add "D")

† Polarity must be observed for models with Form "B" contacts or optional Diode.

\*Terminal for optional Electrostatic Shield.

**HG** Contact relays are position sensitive.



The MRR and RR Series Axial lead epoxy molded reed relays have solid wire leads on each end. They are available with two grid spacings - 0.1 inch for the MRR series and 0.2 inch for the RR series. Available contacts - UP TO 12PST-NO for the MRR series, and 1-4PST-NO or NC for the RR series. The MRR and RR series come with an external Half shield fixed to the body of the relay.

### WIRING DIAGRAM (Terminal view )



### DIMENSIONAL CHART FOR MRR & RR SERIES RELAYS

| SERIES     | DIMENSIONS (Inches) |      |       |      |      |      |             |             |
|------------|---------------------|------|-------|------|------|------|-------------|-------------|
|            | A                   | B    | C     | D    | E    | F    | G           | H           |
| MRR1A      | 1.062               | .425 | .425  | .500 | .500 | .028 | .028        | .018 X .030 |
| MRR2A      | ± .005              | .440 | .515  |      |      |      |             |             |
| MRR4A      |                     | .535 | .810  |      |      |      |             |             |
| RR1A, RR1B | 1.875               | .655 | .655  | .875 | .500 | .035 | .035 X .061 | .055        |
| RR2A       |                     | .670 | .840  |      |      |      |             |             |
| RR4AF      |                     | .810 | 1.385 |      |      |      |             |             |

To convert Inch dimensions to Millimeter use  $25.4 \times \text{Dimension} = \text{Millimeters}$ .

## OUTLINE DIMENSIONS

**See dimensional chart above**

