

R10 series

General Purpose Dry Circuit to 7.5 Amp Multicontact AC or DC Relay

- R10-E – Clear Dust Cover Version
- R10-R – Sealed, Immersion Cleanable Type
- R10S – Super Sensitive, Logic Compatible

File E29244

File LR15734

Users should thoroughly review the technical data before selecting a product part number. It is recommended that user also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.



Features

- Broad range of coil options provide sensitivity ranging from 25 to 750mW.
- Various contacts switch from dry circuit to 7.5 amps.
- Many mounting and termination options.

Contact Data @ 25°C

Arrangements: 1 Form C (SPDT) through 8 Form C (8PDT) See Ordering Information tables for more details regarding availability.

Contact Materials, Styles & Ratings @ +25°C

| Contact Code | Contact Material | Contact Style | Coil Codes Available | Contact Ratings | | |
|--------------|------------------------|---------------------|----------------------|-----------------|-------|-------|
| | | | | Min. | Typ. | Max. |
| W | Silver-Cadmium Oxide | Single Button | V, Q, S, J | 500mA | - | 7.5A‡ |
| X | Silver-Cadmium Oxide | Single Button | V, Q, S, J | 500mA | - | 5A§ |
| Y | Fine Silver | Single Button | All | 100mA | 2A | 3A |
| Z | Fine Silver | Bifurcated | All | 1mA | 100mA | 2A |
| P | Gold overlay on Silver | Bifurcated Crossbar | All | Dry Circuit | 1mA | 3A |

Ratings are at 28VDC or 155VAC unless otherwise specified. Total load must not exceed 30A per relay.

‡ Use ungrounded frame for AC loads of 5A or greater. Max.ratings are 7.5A at 115VAC and 4A at 28VDC for coil codes S and J.

§ Use ungrounded frame for AC loads of 5A or greater. Max.ratings are 5A at 115VAC and 3A at 28VDC for coil codes S and J.

UL Horsepower Contact Ratings (Coil Code V Only)

| Contact Code | No. of Poles | At 110-120VAC | At 220-240VAC |
|--------------|--------------|----------------|----------------|
| W | 1, 2, 4 | 1/8 HP (3.8A) | 1/6 HP (2.2A) |
| X | 1, 2, 4, 6 | 1/20 HP (1.5A) | 1/10 HP (1.5A) |

Expected Mechanical Life: 100 million operations, typical. (Except contact Code W: 1,000,000 operations, typical.)

Typical Expected Life For Resistive Loads @ 25°C

| Type | Current | Voltage | Contact Style | Coil Code | Operations†† |
|------|---------|-----------------|---------------|-----------|-----------------------|
| R10 | 7.5A | 120VAC, 60 Hz. | W | V,S,J | 7.5 · 10 ⁴ |
| R10 | 7.5A | 28VDC | W | V | 7.5 · 10 ⁴ |
| R10 | 5.0A | 120VAC, 60 Hz. | X | V,S,J | 5 · 10 ⁴ |
| R10 | 5.0A | 28VDC | X | V | 5 · 10 ⁴ |
| R10 | 4.0A | 28VDC | W | S,J | 2 · 10 ⁴ |
| R10 | 3.0A | 28VDC | X | S,J | 2 · 10 ⁴ |
| R10 | 3.0A | 28VDC or 120VAC | P | V,S,J | 3 · 10 ⁴ |
| R10 | 2.0A | 28VDC | P,Y,Z | V | 1.5 · 10 ⁶ |
| R10 | 2.0A | 28VDC | P,Y,Z | S,J | 6 · 10 ⁵ |
| R10S | 2.0A | 28VDC | P,Y,Z | J | 5 · 10 ⁵ |
| R10 | 1.0A | 28VDC | P,Y,Z | V,S,J | 12 · 10 ⁶ |
| R10 | 1.0A | 28VDC | P,Y,Z | SS,JJ | 5 · 10 ⁵ |
| R10S | 1.0A | 28VDC | P,Y,Z | J | 1 · 10 ⁶ |
| R10 | 500mA | 28VDC | P,Y,Z | SS,JJ | 5 · 10 ⁶ |
| R10 | 100mA | 28VDC or 120VAC | P,Y,Z | V,S,J | 1 · 10 ⁸ |
| R10 | 100mA | 48VDC | P,Z | SS,JJ | 5 · 10 ⁶ |
| R10 | 100mA | 6VDC | P | SS,JJ | 5 · 10 ⁷ |
| R10S | 100mA | 28VDC or 120VAC | P,Y,Z | J | 1 · 10 ⁶ |
| R10 | 50mA | 6VDC | P,Z | V,S,J | 5 · 10 ⁷ |
| R10S | 30mA | 6VDC | P,Z | J | 5 · 10 ⁶ |
| R10 | 1mA | 6VDC | P | SS,JJ | 5 · 10 ⁷ |

†† Relay operated at rated coil voltage or 133% of pick-up current or higher.

Initial Dielectric Strength

Between Open Contacts: 500V rms, for contact codes P and Z.
1,000V rms for contact codes W, X and Y with coil code V.

Between All Other Conductors: 1,000V rms.

Capacitance

Between Contacts: 2 pf, typ.

Between Contacts and Coil: 2 pf, typ.

Between Coil and Frame: 30 pf, typ.

Initial Insulation Resistance

Between Mutually Insulated Elements: 10¹⁰ ohms @ 25°C, 50% RH.
Consult factory for optional acetal resin material rated 10¹² ohms.

Coil Data @ 25°C (also see Coil Data tables)

Voltage: 3 to 115VDC and 6 to 115VAC.

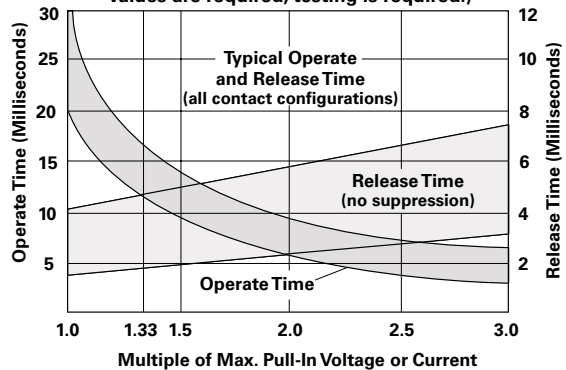
Maximum Coil Power: 2.2 Watts.

Coil Temperature Rise: 30°C per Watt.

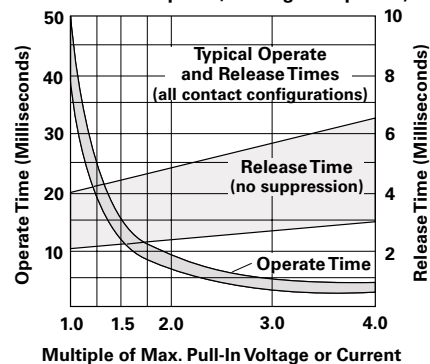
Maximum Coil Temperature: 105°C.

Operate Data @ 25°C

R10 Relays (DC Only) Typical Ranges of Operations
(Curves for reference only. If specific values are required, testing is required.)



R10 Ultra-Sensitive "SS" and "JJ" Typical Ranges of Operation
(Curves for reference only. If specific values are required, testing is required.)



Environmental Data

Storage Temperature Range: -55°C to +105°C.

Operating Temperature Range: -55°C to +75°C.

Mechanical Data

Terminal Finish: Tin plating standard.

Weight: 0.8 to 1.4 oz. (23 to 40g) approximately.

Coil Data Tables @ 25°C

One of the **boldface** resistance or voltage values from a table below is to be inserted in step 6 of the ordering chart on the next page.

| V Standard DC Voltage Adjustment | | | | | |
|--|----------------|--|--------------------------------|---------------------------------|--|
| 2.2 Watts Maximum Continuous Coil Dissipation @ 25°C | | | | | |
| VDC at 25°C | | Coil Resistance at 25°C ± 10% (ohms) | | | |
| Nominal | Pick-up (Max.) | 1, 2 & 4 Form A, B, C or D Pick-up 500mW | 6 Form A, B or C Pick-up 850mW | 8 Form A, B or C Pick-up 1000mW | |
| 3.0 | 2.25 | 10 | 6 | 5 | |
| 5.0 | 3.75 | 28 | 16 | 14 | |
| 6.0 | 4.5 | 52 | 25 | 20 | |
| 12.0 | 9.0 | 185 | 90 | 72 | |
| 24.0 | 18.0 | 700 | 430 | 350 | |
| 48.0 | 36.0 | 2.5K | 1.5K | 1.25K | |
| 72.0 | 54.0 | 5.8K | 3.5K | 2.8K | |
| 115.0 | 86.0 | 15.0K | 9.0K | 8.0K | |

| Q Special DC Voltage Adjustment | | | | | | |
|---------------------------------|-----------------------------|---------------------|-------------------------------|-----------------------------|---------------------|------------------------------|
| 1 & 2 Form A, B, C or D | | | 3 & 4 Form A, B, C or D | | | Nominal Voltage @ 25°C (VDC) |
| Coil Res. @ 25°C ± 10% (ohms) | Pick-up (Max.) @ 25°C (VDC) | Pick-up @ 25°C (mW) | Coil Res. @ 25°C ± 10% (ohms) | Pick-Up (Max.) @ 25°C (VDC) | Pick-up @ 25°C (mW) | |
| 52 | 3.1 | 180 | 32 | 3.8 | 450 | 5 |
| 110 | 4.5 | 185 | 52 | 4.2 | 340 | 6 |
| 450 | 9.2 | 190 | 185 | 8.4 | 380 | 12 |
| 1.8K | 17.4 | 170 | 1.0K | 17.2 | 295 | 24 |
| 7.5K | 36.2 | 175 | 3.2K | 31.1 | 300 | 48 |
| 15.0K | 49.5 | 165 | 7.5K | 49.3 | 325 | 72 |
| 30.0K | 67.5 | 160 | 15.0K | 67.5 | 300 | 115 |

| S Sensitive DC Voltage Adjustment | | | | | |
|--|----------------|---------------------------------------|---------------------------------------|--------------------------------|--------------------------------|
| 2.2 Watts Maximum Continuous Coil Dissipation @ 25°C | | | | | |
| VDC at 25°C | | Coil Resistance at 25°C ± 10% (ohms) | | | |
| Nominal | Pick-up (Max.) | 1 & 2 Form A, B, C or D Pick-up 100mW | 3 & 4 Form A, B, C or D Pick-up 175mW | 6 Form A, B or C Pick-up 250mW | 8 Form A, B or C Pick-up 400mW |
| 3.0 | 2.25 | 50 | 30 | 20 | |
| 5.0 | 3.75 | 140 | 80 | 56 | |
| 6.0 | 4.5 | 200 | 110 | 80 | |
| 12.0 | 9.0 | 800 | 450 | 320 | |
| 24.0 | 18.0 | 3.2K | 1.8K | 1.2K | |
| 48.0 | 36.0 | 13.0K | 7.5K | 5.2K | |
| 72.0 | 54.0 | 28.0K | 16.0 | 13.0K | |
| 115.0 | 86.0 | 50.0K | 40.0K | 30.0K | |

| SS Ultra-Sensitive Voltage Adjustment (1-4 Pole Only) | | | | |
|---|----------------|--------------------------------------|-----------------------------|----------------------------------|
| 2.2 Watts Maximum Continuous Coil Dissipation @ 25°C | | | | |
| VDC at 25°C | | Coil Resistance at 25°C ± 10% (ohms) | | |
| Nominal | Pick-up (Max.) | 1 Form C Pick-up Power 20mW | 2 Form C Pick-up Power 40mW | 3 & 4 Form C, Pick-up Power 80mW |
| 3.0 | 2.25 | 220 | 110 | 52 |
| 5.0 | 3.75 | 700 | 350 | 175 |
| 6.0 | 4.5 | 1.0K | 500 | 250 |
| 12.0 | 9.0 | 4.0K | 2.0K | 1.0K |
| 18.0 | 13.5 | 9.0K | 4.5K | 2.2K |
| 24.0 | 18.0 | 15.0K | 7.5K | 3.7K |
| 36.0 | 27.0 | 30.0K | 15.0K | 7.5K |
| 48.0 | 36.0 | — | 30.0K | 15.0K |

| J Sensitive DC Current Adjustment | | | | | |
|-----------------------------------|----------------------------------|-----------------------------------|-----------------------------------|--------------------------------|------------------------|
| Must Operate Current (mA) | | | | | |
| All Applicable Types Except R10S | | | | | |
| Coil Resistance ±10% (ohms) | 2 Form A, B, C or D Pick-up 85mW | 4 Form A, B, C or D Pick-up 175mW | 6 Form A, B, C or D Pick-up 250mW | 8 Form A, B or C Pick-up 400mW | Max. Coil Current (mA) |
| 1.0K | 8.5 | 13.0 | 16.0 | 20.0 | 45.0 |
| 2.5K | 5.8 | 8.4 | 10.0 | 13.0 | 28.0 |
| 5.0K | 4.1 | 6.2 | 7.2 | 9.0 | 20.0 |
| 10.0K | 3.1 | 4.5 | 5.0 | 6.4 | 14.0 |
| 15.0K | 2.6 | 3.5 | 4.2 | 5.3 | 11.5 |
| 30.0K | 1.7 | 2.5 | 2.9 | 3.7 | 8.3 |

| R10S Types Only | | | |
|-----------------------------|-----------------------|-----------------------|-----------------------|
| Coil Resistance ±10% (ohms) | 1 Form C Pick-up 10mW | 2 Form C Pick-up 20mW | 4 Form C Pick-up 40mW |
| 500 | 4.5 (A) | 6.3 (A) | 9.0 |
| 1.0K | 3.2 (A) | 4.5 | 6.5 |
| 2.5K | 2.0 | 2.9 (B) | 4.1 (B) |
| 5.0K | 1.4 (B) | 2.0 | 2.9 (C) |
| 10.0K | 1.0 | 1.4 (C) | 2.0 |
| 16.0K | 0.8 | 1.2 | 1.4 |
| 30.0K | 0.6 (C) | 0.8 | 1.2 |

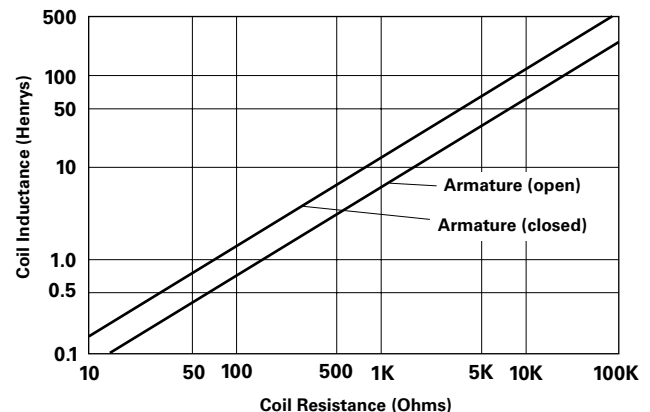
(A) Suggested for 5VDC operation.
 (B) Suggested for 12VDC operation.
 (C) Suggested for 24VDC operation.

| JJ Ultra-Sensitive Current Adjustment (1-4 Pole Only) | | | | |
|---|-----------------------------|-----------------------------|---------------------------------|--------------------------------------|
| Maximum Pick-Up Current (mA) | | | | |
| Coil Resistance at 25°C ±10% | 1 Form C Pick-Up Power 20mW | 2 Form C Pick-Up Power 40mW | 3 & 4 Form C Pick-Up Power 80mW | Maximum Continuous Coil Current (mA) |
| 1.0K | 4.5 | 6.5 | 9.0 | 45.0 |
| 2.5K | 2.9 | 4.1 | 5.8 | 28.0 |
| 5.0K | 2.1 | 2.9 | 4.1 | 20.0 |
| 10.0K | 1.5 | 2.0 | 3.0 | 14.0 |
| 15.0K | 1.2 | 1.7 | 2.4 | 11.5 |
| 30.0K | 0.85 | 1.2 | 1.7 | 8.3 |

| Standard AC Operated Relays | | | | |
|-------------------------------------|--------------|-----------------|---------|--------------------|
| Coil Resistance @ 25°C ± 20% (ohms) | | Volts AC @ 25°C | | |
| 2 & 4 Form C | 6 & 8 Form C | Pick-Up (max.) | Nominal | Maximum Continuous |
| 25 | 15 | 5.0 | 6 | 7.2 |
| 120 | 90 | 9.0 | 12 | 14.5 |
| 500 | 350 | 18.0 | 24 | 30.0 |
| 2.0K | 1.4K | 36.0 | 48 | 60.0 |
| 9.0K | 7.5K | 86.0 | 115 | 130.0 |

Note: Dual coil diode rectified construction.

Typical Coil Inductance



Dimensions are shown for reference purposes only.

Dimensions are in inches over (millimeters) unless otherwise specified.

Specifications and availability subject to change.

Ordering Information

Typical Part Number ▶

R10

-E

1

Y

4

-V700

1. Basic Series:

R10 = Relay with Form C contacts.

R10S = Super sensitive R10 (case and terminals E1 & E2 only, J coil adj. only).

2. Case Style:

E = Non-sealed polycarbonate cover.

R = Immersion cleanable, tape sealed plastic case (R10 only [Form C], terminal code 2 & 9 only [std. PCB]).

No ground or stud included. Not available on R10S.

3. Terminals & Mounting:

1 = Solder/plug-in terminals with #3-48 mounting stud.

2 = Printed circuit terminals (std.) .064" (1.62mm) clearance, 1.25" (31.75mm) seated ht.

6 = Side mounting plate with #6-32 stud, solder/plug-in terminals (#3-48 stud not included).

7 = Narrow (.04" [1.02mm] wide) printed circuit terminals .013" (.33mm) clearance, 1.2" (30.48mm) seated ht.

9 = Non-shouldered, narrow (.04" [1.02mm] wide) printed circuit terminals in a staggered arrangement (1 to 6 poles only).

4. Contact Style & Rating:

| | W | X | Y | Z | P |
|------|----------------------------------|------------------------|----------------------------------|-----------------------------------|---|
| | Single Contact | Single Contact | Single Contact | Bifurcated, Low Level Contacts | Bifurcated Crossbar, Dry Circuit Contacts |
| | V, Q, S & J Coil Adjustment Only | | | | |
| | Max. 7.5A† Min. 500mA | Max. 5A‡ Min. 500mA | Typ. 2A Max. 3A Min. 100mA | Typ. 100mA Max. 2A Min. 1mA | Typ. 1mA Max. 3A Min. Dry Circuit |
| R10 | X | X | X | X | X |
| R10S | | | X | X | X |

Ratings are at 28VDC or 115VAC. Total load must not exceed 30A per relay.

† Use ungrounded frame for AC loads of 5A or greater. Max. ratings are 7.5A at 115VAC and 4A at 28VDC for coil codes S & J.

‡ Use ungrounded frame for AC loads of 5A or greater. Max. ratings are 5A at 115VAC and 3A at 28VDC for coil codes S & J.

5. Number of Poles:

1 = 1 pole.

4 = 4 pole

2 = 2 pole.

6 = 6 pole (not available with W contacts).

3 = 3 pole.

8 = 8 pole (available on case style E only; not available with W contacts).

6. Coil (Refer to Coil Data Tables):

AC Voltage (available on R10 only)

Specify nominal coil voltage followed by V (example: 24V).

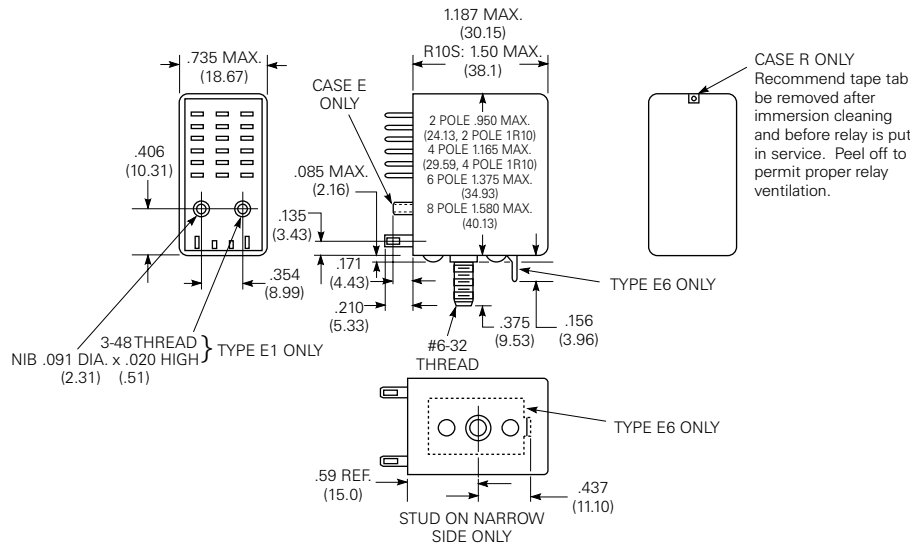
DC Voltage

Specify coil adjustment code letter followed by coil resistance (example: V700).

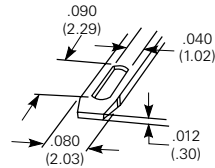
Our authorized distributors are more likely to stock the following items for immediate delivery.

| | | | | | |
|---------------|----------------|-----------------|----------------|---------------|-----------------|
| R10-E1P2-115V | R10-E1X2-24V | R10-E1Y2-J1.0K | R10-E1Y4-V700 | R10-E2P4-V185 | R10-E2Y4-V185 |
| R10-E1P2-V700 | R10-E1X2-S800 | R10-E1Y2-J2.5K | R10-E1Y6-V1.5K | R10-E2P4-V700 | R10-E2Y4-V700 |
| R10-E1P4-115V | R10-E1X2-V185 | R10-E1Y2-V15.0K | R10-E1Z2-V185 | R10-E2W2-V185 | R10S-E1Y2-J5.0K |
| R10-E1P4-V700 | R10-E1X2-V700 | R10-E1Y2-V185 | R10-E1Z2-V700 | R10-E2X2-V185 | R10S-E2Y1-J1.0K |
| R10-E1W2-V185 | R10-E1X4-115V | R10-E1Y2-V2.5K | R10-E1Z4-V185 | R10-E2X2-V700 | |
| R10-E1W2-V700 | R10-E1X4-V185 | R10-E1Y2-V700 | R10-E1Z4-V2.5K | R10-E2X4-V185 | |
| R10-E1W4-V185 | R10-E1X4-V2.5K | R10-E1Y4-J10.0K | R10-E1Z4-V700 | R10-E2X4-V700 | |
| R10-E1W4-V700 | R10-E1X4-V700 | R10-E1Y4-V2.5K | R10-E1Z6-V1.5K | R10-E2Y2-V185 | |
| R10-E1X2-115V | R10-E1X6-V430 | R10-E1Y4-V52 | R10-E1Z6-V430 | R10-E2Y2-V700 | |

Outline Dimensions

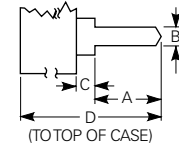


Solder Terminal Dimensions



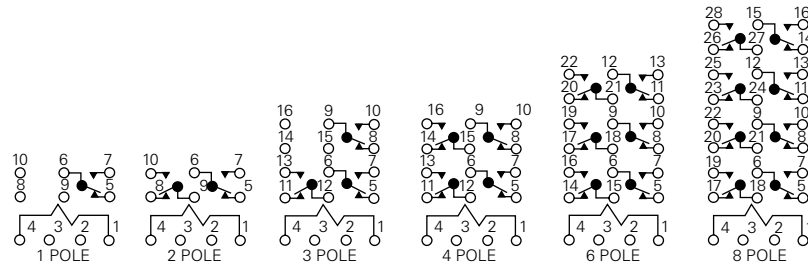
PC Terminal Dimensions

| | A | B | C | D | Arrang. |
|-----------|------|------|------|-------|-----------|
| Type 2 | .131 | .050 | .064 | 1.251 | Inline |
| Type 7 | .131 | .040 | .013 | 1.20 | Inline |
| Type 9 | .170 | .040 | .000 | 1.187 | Staggered |
| Thickness | .012 | .012 | .012 | .013 | — |

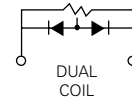


Wiring Diagrams (Bottom Views)

R10 Wiring Diagrams

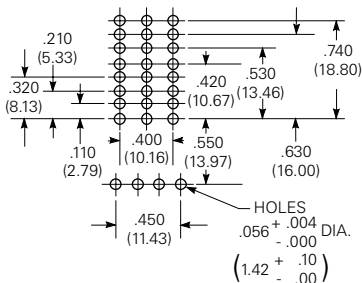


R10-AC Wiring Diagram

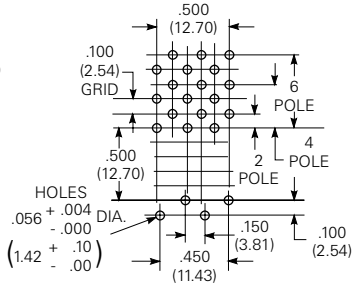


Suggested PC Board Layouts (Component Side of Boards)

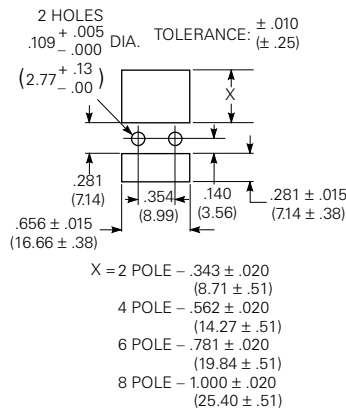
Terminal Types E2 & R2



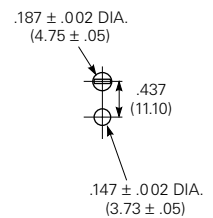
Terminal Types E9 & R9



Suggested Panel Cutout For Relay or Socket



Mounting Hole Layout For Terminal & Mounting Style 6



R10 Socket & Accessory Information



Socket Specifications

Contact Material:

Spring brass, tin-plated.

Body Material: 2 and 4 pole: polyester.
6 and 8 pole: phenolic.

Voltage Drop: 30mV max. @ 10A.

Dielectric Strength: 1,000V rms.

Insulation Resistance: 10⁹ megohms.

Max. Current: 10A.

Solder or PC Terminal Sockets

Rugged, molded socket body retains floating terminals of either solder or printed circuit pin configuration. PC terminal sockets are offered with pins in either 0.1" (2.54mm) grid or in-line arrangement.

Grounding Provisions

Pre-installed on sockets

Not for use at 5A AC and above.

Grounding Strip: Mounting stud of relay contacts grounding strip. Grounding strip is grounded with screw or rivet through round hole in socket.

Grounding Terminal (PC sockets only):

Mounting stud of relay contacts ground terminal through square hole in socket.

Strip



Terminal



Caution:

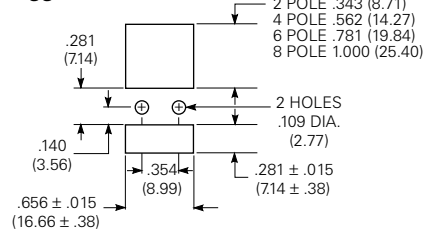
Printed circuit sockets are manufactured with "floating" (loose) terminals. This permits them to align with holes in the circuit board and with the relay terminals. During the mounting and soldering of the socket, vertical float should be eliminated and the terminals seated on the board. (This may be accomplished by inserting a dummy relay in the socket.) Failure to eliminate float may cause fracture of the solder joint or separation of the copper conductor from the printed circuit board when a relay is inserted in the socket after soldering.

Ordering Data – Stock items are boldfaced.

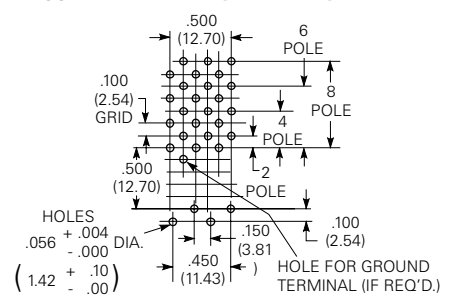
| Socket Part No. | No. of Poles | Type of Terminal | Grounding Provision |
|-----------------|--------------|--------------------------------------|---------------------|
| 27E125 | 2 | Solder | Strip |
| 27E126 | 4 | | Strip |
| 27E127 | 6 | | Strip |
| 27E162 | 2 | | None |
| 27E163 | 4 | | None |
| 27E164 | 6 | | None |
| 27E128 | 2 | PC Stag. .180" long (4.57mm) | Strip |
| 27E129 | 4 | | Strip |
| 27E130 | 6 | | Strip |
| 27E254 | 8 | | Strip |
| 27E212 | 2 | | None |
| 27E213 | 4 | | None |
| 27E271 | 6 | | None |
| 27E258 | 8 | | None |
| 27E193 | 2 | | Terminal |
| 27E194 | 4 | | Terminal |
| 27E636 | 2 | PC Stag. .210" long (5.33mm) | Strip |
| 27E637 | 4 | Strip | Strip |
| 27E631 | 2 | PC In-line .180" long (4.57mm) | Strip |
| 27E632 | 4 | | Strip |
| 27E340 | 6 | | Strip |
| 27E342 | 2 | | None |
| 27E629 | 4 | | None |
| 27E630 | 6 | | None |
| 27E338 | 4 | | Terminal |
| 27E633 | 2 | PC In-line .210" long (5.33mm) | Strip |
| 27E634 | 4 | Strip | Strip |
| 27E635 | 6 | Strip | Strip |

All tolerances ±.010 (±.25) unless otherwise noted.

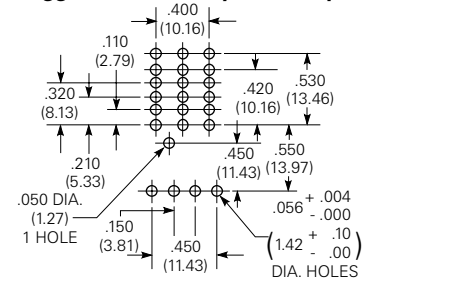
Suggested Panel Cutout



Suggested Board Layout (Component Side)



Suggested Board Layout (Component Side)



Hold Downs For Use With R10 Sockets

| Part No. | No. of Poles | Description |
|---------------|--------------|--------------------------------|
| 20C249 | 2 | Wire Hold Down Spring |
| 20C250 | 4 | Wire Hold Down Spring |
| 20C251 | 6 | Wire Hold Down Spring |
| 20C266 | 8 | Wire Hold Down Spring |
| 20C259 | All | Wire Hold Down Strap (PC only) |
| 20C300 | 2 (R10S) | Hold Down Spring |
| 20C301 | 4 (R10S) | Hold Down Spring |

Hold Down Spring

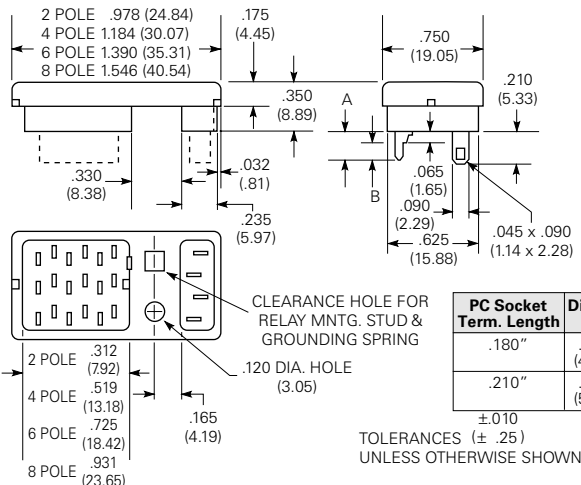


Hold Down Strap (PC Sockets Only)



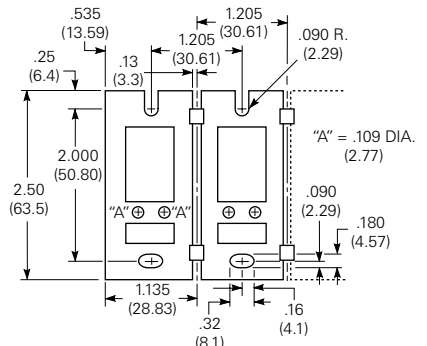
See following page for additional sockets & accessories.

Solder & PC Terminal Socket Outline Dimensions



37D645 – Mounting Strip

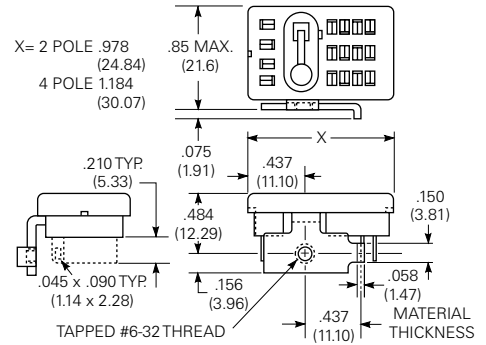
Strip of .060" (1.52mm) aluminum contains ten pre-punched, breakaway mounting plates. Each plate accommodates a 2, 4, 6 or 8 pole solder terminal R10 relay or socket to facilitate chassis- or rack mounting.



R10 Socket & Accessory Information (Continued)

Ordering Data – Stock items are boldfaced.

| Socket Part No. | No. of Poles | Type of Terminal | Grounding Provision |
|-----------------|--------------|------------------|---------------------|
| 27E317 | 2 | Solder/Bracket | Strip |
| 27E152 | 4 | Solder/Bracket | Strip |

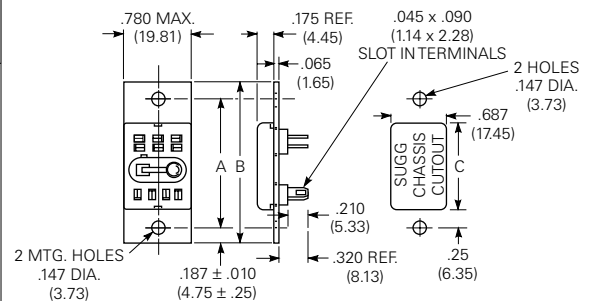


Bracket Mount Socket
Allows solder terminal relay to mount flat on a chassis.

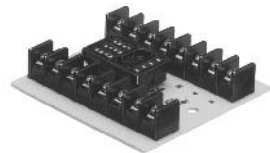
| Socket Part No. | No. of Poles | Dim. A Nom. | Dim. B Max. | Dim. C Min. |
|-----------------|--------------|---------------|---------------|---------------|
| 27E446 | 2 | 1.437 (36.50) | 1.822 (46.27) | .937 (23.80) |
| 27E447 | 4 | 1.687 (42.85) | 2.072 (52.63) | 1.125 (28.58) |
| 27E448 | 6 | 1.875 (47.63) | 2.260 (57.40) | 1.343 (34.11) |



Flange Mount Socket
Solder terminal socket with tin-plated terminals and grounding strip pre-assembled on .065" (1.65mm) steel mounting plate. Requires only one chassis cutout.

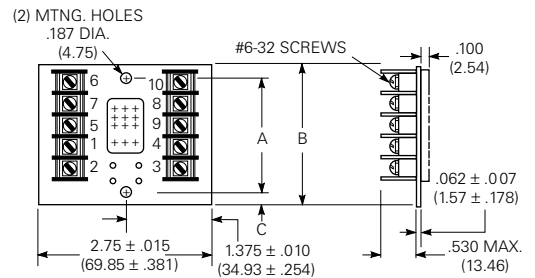


| Part No. | No. of Poles | Dim. A Nom. | Dim. B Max. | Dim. C Nom. |
|---------------|--------------|---------------|---------------|--------------|
| 27E460 | 2 | 1.800 (45.72) | 2.230 (56.64) | .200 (5.08) |
| 27E461 | 4 | 2.125 (53.98) | 2.830 (71.88) | .337 (8.56) |
| 27E462 | 6 | 2.812 (71.42) | 3.830 (97.28) | .494 (12.55) |



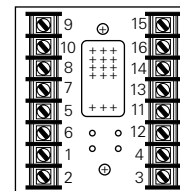
Track Mount Socket
Provides front wiring, screw terminal connections for R10 family relays. No grounding provision.

2 Pole Terminal Wiring Code

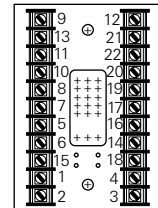


See preceding page for hold down springs.

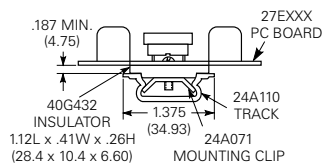
4 Pole Terminal Wiring Code



6 Pole Terminal Wiring Code



Suggested Track Mounting



Suggested Chassis Mounting

