

# Amphenol Pcd

Connecting People & Technology

Relay Sockets



## Relay Sockets

Amphenol Pcd's Relay Sockets are qualified to MIL-PRF-12883 specifications and have an amp range between 2 and 25. Offered in various types and configurations, they feature state of the art ultrasonically bonded interfaces between the dielectric components, eliminating air paths and providing protection against moisture and degradation. Our Quick Mount Relay Sockets snap into standard aircraft panel cutouts eliminating the need of mounting hardware. This simplifies installation and dramatically reduces weight and installation time. They meet the performance of MIL-PRF-12883 and are compatible with MIL-SPEC approved relays.

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## MIL-PRF-12883

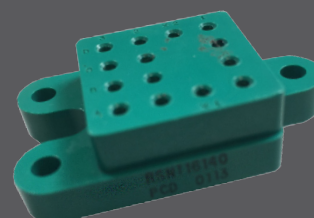
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|---------------------|-----------------|-----|
| M12883/40-01        | RSL116079       | 8   |
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| M12883/40-03        | RSL116083       | 8   |
| M12883/40-04        | RSL116085       | 8   |
| M12883/40-05        | RSL116087       | 8   |
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| M12883/40-13        | RSE116661       | 8   |
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| M12883/40-18        | RSE116671       | 9   |
| M12883/40-19        | RSE116673       | 9   |
| M12883/40-20        | RSE116675       | 9   |
| M12883/40-21        | RSE116677       | 9   |
| M12883/40-22        | RSE116679       | 9   |
| M12883/40-23        | RSE116681       | 9   |
| M12883/40-24        | RSE116683       | 9   |
| M12883/41-01        | RSL116091       | 10  |
| M12883/41-02        | RSL116093       | 10  |
| M12883/41-03        | RSL116095       | 10  |
| M12883/41-04        | RSL116097       | 10  |
| M12883/41-05        | RSL116099       | 10  |
| M12883/41-06        | RSL116063       | 10  |
| M12883/41-07        | RSL116065       | 10  |
| M12883/41-08        | RSL116067       | 10  |
| M12883/41-09        | RSL116069       | 10  |
| M12883/41-10        | RSL116071       | 10  |
| M12883/41-11        | RSE116685       | 11  |
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| M12883/41-13        | RSE116689       | 11  |
| M12883/41-14        | RSE116691       | 11  |
| M12883/41-15        | RSE116693       | 11  |
| M12883/41-16        | RSE116695       | 11  |
| M12883/41-17        | RSE116697       | 11  |
| M12883/41-18        | RSE116699       | 11  |
| M12883/41-19        | RSE116701       | 11  |

| Military Socket P/N | APCD Socket P/N | Pg. |
|---------------------|-----------------|-----|
| M12883/41-20        | RSE116703       | 11  |
| M12883/44-01        | RSE120151       | 12  |
| M12883/44-02        | RSE120153       | 12  |
| M12883/44-03        | RSE120155       | 12  |
| M12883/44-04        | RSE120157       | 12  |
| M12883/45-01        | RSE120159       | 13  |
| M12883/45-02        | RSE120161       | 13  |
| M12883/45-03        | RSE120163       | 13  |
| M12883/45-04        | RSE120165       | 14  |
| M12883/45-05        | RSE120167       | 14  |
| M12883/45-06        | RSE120169       | 14  |
| M12883/46-01        | RSE116747       | 15  |
| M12883/46-02        | RSE116749       | 15  |
| M12883/46-03        | RSE116751       | 15  |
| M12883/46-04        | RSE116753       | 15  |
| M12883/47-01        | RSE116755       | 16  |
| M12883/47-02        | RSE116757       | 16  |
| M12883/47-04        | RSE116761       | 16  |
| M12883/47-05        | RSE116763       | 16  |
| M12883/47-07        | RSL116101       | 16  |
| M12883/47-08        | RSL116103       | 16  |
| M12883/47-10        | RSL116073       | 16  |
| M12883/47-11        | RSL116075       | 16  |
| M12883/48-01        | RSE112061       | 17  |
| M12883/48-02        | RSE112063       | 17  |
| M12883/48-03        | RSL112105       | 17  |
| M12883/48-04        | RSL112101       | 17  |
| M12883/48-05        | RSE112065       | 17  |
| M12883/48-06        | RSE112067       | 17  |
| M12883/48-07        | RSL112107       | 17  |
| M12883/48-08        | RSL112103       | 17  |
| M12883/52-001       | RSE116175       | 18  |
| M12883/52-002       | RSE116185       | 18  |
| M12883/52-003       | RSE116195       | 18  |
| M12883/53-001       | RST145005       | 18  |
| M12883/54-01        | RSE116627       | 19  |
| M12883/54-02        | RSE116631       | 19  |
| M12883/54-03        | RSE116629       | 19  |
| M12883/54-04        | RSE116635       | 19  |
| M12883/55-01        | RSE112035       | 20  |
| M12883/55-02        | RSE112036       | 20  |
| M12883/55-03        | RSE112044       | 20  |

## Relay Socket Cross Reference Chart

| Military Relay P/N                                                                                         | Military Socket P/N                                                                                                          | APCD Socket P/N                                                                                      | Relay Type      | Pg.   |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------|-------|
| M83536/15-002<br>M83536/16-006, -014, -031, -034<br>M83726/1, /2, /3, /4, /28, /29, /30, /31*<br>MS27709-2 | M12883/40-01<br>M12883/40-05<br>M12883/40-07<br>M12883/40-11<br>M12883/40-13<br>M12883/40-17<br>M12883/40-19<br>M12883/40-23 | RSL116079<br>RSL116087<br>RSL116051<br>RSL116059<br>RSE116661<br>RSE116669<br>RSE116673<br>RSE116681 | 4 Pole / 10 Amp | 8-9   |
| M83536/17-002, 17-005                                                                                      | M12883/40-02<br>M12883/40-08<br>M12883/40-14<br>M12883/40-20                                                                 | RSL116081<br>RSL116053<br>RSE116663<br>RSE116675                                                     | 4 Pole / 10 Amp | 8-9   |
| M83536/18-002, -005, -008, -012<br>M83536/19-002, -005, -008, -012<br>M83536/20-002                        | M12883/40-06<br>M12883/40-12<br>M12883/40-18<br>M12883/40-24                                                                 | RSL116089<br>RSL116061<br>RSL116671<br>RSE116683                                                     | 4 Pole / 10 Amp | 8-9   |
| Leach Corp. KA-D4E & J                                                                                     | M12883/40-04<br>M12883/40-10<br>M12883/40-16<br>M12883/40-22                                                                 | RSL116085<br>RSL116057<br>RSE116667<br>RSE116679                                                     | 4 Pole / 10 Amp | 8-9   |
| Leach Corp. JA-D4E & J                                                                                     | M12883/41-03<br>M12883/41-08<br>M12883/41-13<br>M12883/41-18                                                                 | RSL116095<br>RSL116067<br>RSE116689<br>RSE116699                                                     | 2 Pole / 10 Amp | 10-11 |
| M83536/9, -006, -015, -024, -035<br>M83536/10-006, -015, -024, -034, -038                                  | M12883/41-01<br>M12883/41-04<br>M12883/41-06<br>M12883/41-09<br>M12883/41-11<br>M12883/41-14<br>M12883/41-16<br>M12883/41-19 | RSL116091<br>RSL116097<br>RSL116063<br>RSL116069<br>RSE116685<br>RSE116691<br>RSE116695<br>RSE116701 | 2 Pole / 10 Amp | 10-11 |
| M83536/11-002, 004, 007                                                                                    | M12883/41-02<br>M12883/41-07<br>M12883/41-12<br>M12883/41-17                                                                 | RSL116093<br>RSL116065<br>RSE116687<br>RSE116697                                                     | 2 Pole / 10 Amp | 10-11 |
| M83536/13-002, 005, 008, 012<br>M83536/14-002                                                              | M12883/41-05<br>M12883/41-10<br>M12883/41-15<br>M12883/41-20                                                                 | RSL116099<br>RSL116071<br>RSE116693<br>RSE116703                                                     | 2 Pole / 10 Amp | 10-11 |
| M83536/5-006, -014, -022, -030<br>M83536/2-006, -015, -024, -035                                           | M12883/44-01                                                                                                                 | RSE120151                                                                                            | 4 Pole / 5 Amp  | 12    |
| M83536/7-022                                                                                               | M12883/44-02                                                                                                                 | RSE120153                                                                                            | 4 Pole / 5 Amp  | 12    |
| M6106/38-002                                                                                               | M12883/45-04                                                                                                                 | RSE120165                                                                                            | 2 Pole / 5 Amp  | 13-14 |
| M83536/1-006, -015, -024, -033<br>M83536/2-006, -015, -024, -035                                           | M12883/45-01                                                                                                                 | RSE120159                                                                                            | 2 Pole / 5 Amp  | 13-14 |
| M6106/40-002                                                                                               | M12883/46-02                                                                                                                 | RSE116749                                                                                            | 3 Pole / 5 Amp  | 15    |
| M83536/21-006, -014, -022, -030<br>M83536/22-006, -014, -022, -031                                         | M12883/46-01                                                                                                                 | RSE116747                                                                                            | 3 Pole / 10 Amp | 15    |
| M83536/25-002<br>M83536/26-002                                                                             | M12883/47-01<br>M12883/47-04<br>M12883/47-07<br>M12883/47-10                                                                 | RSE116755<br>RSE116761<br>RSL116101<br>RSL116073                                                     | 6 Pole / 10 Amp | 16    |
| M6106/27-002                                                                                               | M12883/47-02<br>M12883/47-05<br>M12883/47-08<br>M12883/47-11                                                                 | RSE116757<br>RSE116763<br>RSL116103<br>RSL116075                                                     | 6 Pole / 10 Amp | 16    |
| MS27743-06, -12, -18, -24                                                                                  | M12883/48-01<br>M12883/48-02<br>M12883/48-03<br>M12883/48-04                                                                 | RSE112061<br>RSE112063<br>RSL112105<br>RSL112101                                                     | 3 Pole / 25 Amp | 17    |

| Military Relay P/N               | Military Socket P/N                                          | APCD Socket P/N                                  | Relay Type      | Pg. |
|----------------------------------|--------------------------------------------------------------|--------------------------------------------------|-----------------|-----|
| MS27743-09, -15, -21, -27        | M12883/48-05<br>M12883/48-06<br>M12883/48-07<br>M12883/48-08 | RSE112065<br>RSE112067<br>RSL112107<br>RSL112103 | 3 Pole / 25 Amp | 17  |
| M83536/2-028, M83726/24, /25     | M12883/52-001                                                | RSE116175                                        | Track Mount     | 18  |
| M83536/6-025                     | M12883/52-002                                                | RSE116185                                        | Track Mount     | 18  |
| MS27742-2                        | M12883/54-04                                                 | RSE116635                                        | 3 Pole / 25 Amp | 19  |
| M6106/12-002                     | M12883/54-03                                                 | RSE116629                                        | 3 Pole / 25 Amp | 19  |
| M6106/13-002,-008,-011,-013,-015 | M12883/54-01                                                 | RSE116627                                        | 3 Pole / 25 Amp | 19  |
| M6106/13-004                     | M12883/54-02                                                 | RSE116631                                        | 3 Pole / 25 Amp | 19  |
| M6106/19-004,-007,-012,-017,-022 | M12883/55-01,<br>M12883/55-02                                | RSE112035,<br>RSE112036                          | 1 Pole / 25 Amp | 20  |
| M6106/20-002                     | M12883/55-03                                                 | RSE112044                                        | 1 Pole / 25 Amp | 20  |

## Relay Sockets Overview

MIL-PRF-12883

Amphenol Pcd offers the industry's broadest line of pluggable relay sockets for commercial and military airborne, ground and shipboard equipment. Sockets are made to MIL-PRF-12883 specifications, plus specialized requirements, and are supplied in a broad range of military standard and special configurations and styles for 2 through 25 amp operations. Amphenol Pcd Relay Sockets feature state-of-the-art ultrasonically bonded interfaces between the dielectric components, which eliminate air paths and provide protection against moisture and degradation.

### Low Profile

Low Profile Relay Sockets are provided in all military configurations, are configured to a minimum size and weight, and accept the MIL-C-39029/92 contact family.

### Extended Height

Extended Height Sockets are configured to accept the longer MIL-C-39029/5 contact - which is standard on many cylindrical connectors and other avionic interconnect systems - and allow contact standardization.

### Mounting Hardware

Sockets are available with either fixed or loose mounting studs. Studs and hardware supplied with standard Amphenol Pcd QPL-listed sockets are made from cold rolled steel. Stainless steel is available as an alternate. To specify stainless steel, an "S" is added to both the QPL number and the Amphenol Pcd catalog number.

### Mounting Style

Relay sockets can be top or bottom mounted. See page 24 for mounting instructions.

### Polarization

Relay-to-socket positive polarization is provided by specific contact configurations and/or polarizing pins, in accordance with MIL-Spec requirements.

### Contacts

Closed entry socket contacts qualified to MIL-C-39029 are used and supplied with Amphenol Pcd Relay Sockets. Note: Relay Socket catalog numbers include the appropriate number of contacts as defined in the applicable military specification.

## Extended Height RSL 4 Pole/10 Amp



**Mates with M83536, M6106,  
M27709, M83726 Relays**

### Operating Range

**Temperature:** -65°C to 125°C

**Insulation Resistance:** 1000 Megaohms Min.

**Dielectric Withstanding Voltage:** 1500 VRMS at Sea Level 500 VRMS at 80,000 ft.

**Vibration:** MIL-STD-202, Method 204 Test Condition G

**Shock:** MIL-STD-202, Method 213 Test Condition C

### Materials

**Socket Body:** Polyetherimide per ASTM-D5205

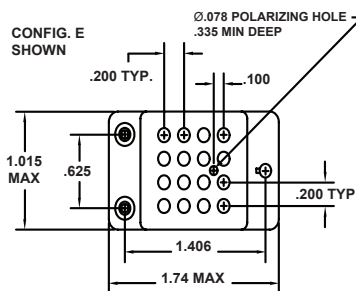
**Grommet:** Silicone Rubber per A-A-59588

**Hardware:** Stainless Steel or Steel w/Cadmium Chromate Finish

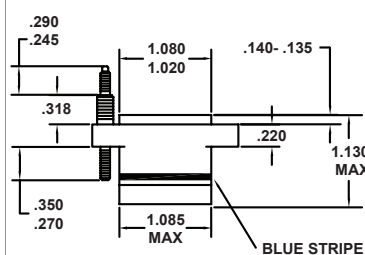
**Contact Retainers:** Stainless Steel

**Socket Contacts:** Stainless Steel, Hard Gold Plated in Accordance with SAE-AMS-2422

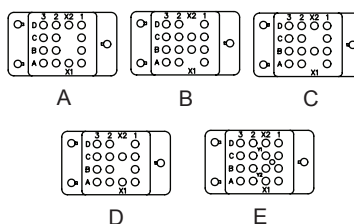
### Dimensions



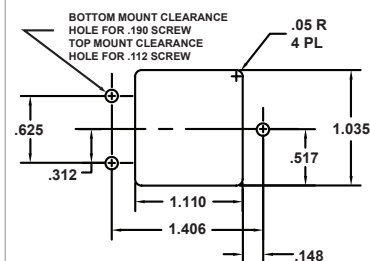
Top View



Side View



Socket Configurations



Recommended Mounting  
Panel Cutout

### EXTENDED HEIGHT RELAY SOCKETS

| MIL P/N M12883 | APCD P/N  | Mounting Stud | QTY | Size <sup>1</sup> | Contact P/N | Config. | Mating Relay                                                                          | Weight |       |
|----------------|-----------|---------------|-----|-------------------|-------------|---------|---------------------------------------------------------------------------------------|--------|-------|
|                |           |               |     |                   |             |         |                                                                                       | Pounds | Grams |
| /40-01         | RSL116079 | Loose         | 14  | 16/16             | /5-116      | A       | M83536/15-022, M83536/16-006,-014,-031,-034<br>M83726/1,2,3,4,28,29,30,31*, M27709-02 | .132   | 60    |
| /40-02         | RSL116081 | Loose         | 14  | 16/16             | /5-116      | B       | M83536/17-002,-005                                                                    |        |       |
| /40-03         | RSL116083 | Loose         | 14  | 16/16             | /5-116      | C       |                                                                                       |        |       |
| /40-04         | RSL116085 | Loose         | 14  | 16/16             | /5-116      | D       | Leach Corp KA-D4E & J                                                                 |        |       |
| /40-05         | RSL116087 | Loose         | 14  | 16/20             | /5/117      | A       | M83536/15-022, M83536/16-006,-014,-031,-034<br>M83726/1,2,3,4,28,29,31,N27709-02      |        |       |
| /40-06         | RSL116089 | Loose         | 16  | 16/16             | /5-116      | E       | M83536/18-002,005,008,012<br>M83536/19-002,008,012, M83536/20-002                     |        |       |
| /40-07         | RSL116051 | Fixed         | 14  | 16/16             | /5-116      | A       | M83536/15-022, M83536/16-006,-014,-031,-034<br>M83726/1,2,3,4,28,29,31,N27709-02      |        |       |
| /40-08         | RSL116053 | Fixed         | 14  | 16/16             | /5-116      | B       | M83536/17-002,-005                                                                    |        |       |
| /40-09         | RSL116055 | Fixed         | 14  | 16/16             | /5-116      | C       |                                                                                       |        |       |
| /40-10         | RSL116057 | Fixed         | 14  | 16/16             | /5-116      | D       | Leach Corp KA-D4E & J                                                                 |        |       |
| /40-11         | RSL116059 | Fixed         | 14  | 16/20             | /5/117      | A       | M83536/15-022, M83536/16-006,-014,-031,-034<br>M83726/1,2,3,4,28,29,31,M27709-02      |        |       |
| /40-12         | RSL116061 | Fixed         | 16  | 16/16             | /5-116      | E       | M83536/18-002,-005,-008,-012<br>M83536/19-002,-008,-012, M83536/20-002                |        |       |

1. Mating End/Wire Barrel



## Operating Range

**Temperature:** -65°C to 125°C

**Insulation Resistance:** 1000 Megaohms Min.

**Dielectric Withstanding Voltage:** 1500 VRMS at Sea Level 500 VRMS at 80,000 ft.

**Vibration:** MIL-STD-202, Method 204 Test Condition G

**Shock:** MIL-STD-202, Method 213 Test Condition C

## Materials

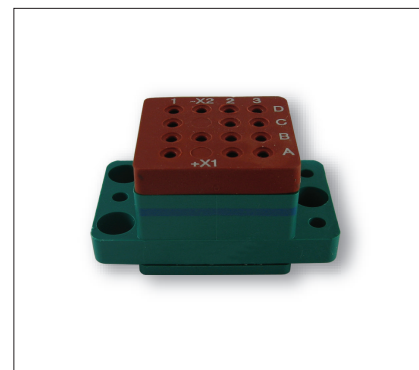
**Socket Body:** Polyetherimide per ASTM-D5205

**Grommet:** Silicone Rubber per A-A-59588

**Hardware:** Stainless Steel or Steel w/Cadmium Chromate Finish

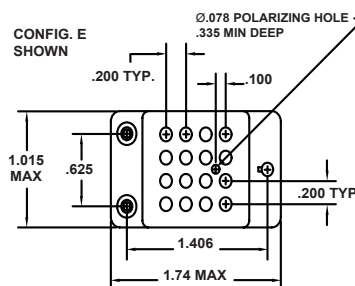
**Contact Retainers:** Stainless Steel

**Socket Contacts:** Stainless Steel, Hard Gold Plated in Accordance with SAE-AMS-2422

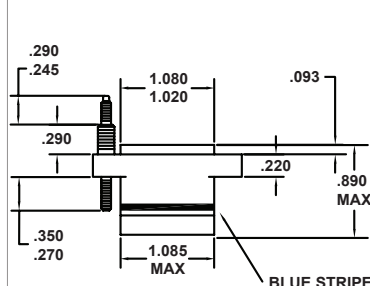


**Mates with M83536, M6106, M27709, M83726 Relays**

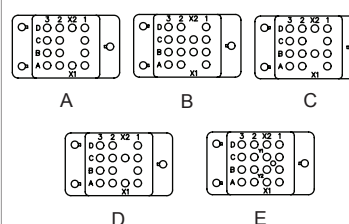
## Dimensions



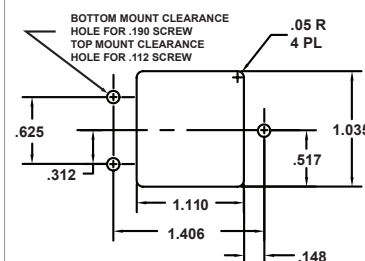
Top View



Side View



Socket Configurations



Recommended Mounting Panel Cutout

| LOW PROFILE RELAY SOCKETS |           |               |     |                   |             |         |                                                                                       |        |       |
|---------------------------|-----------|---------------|-----|-------------------|-------------|---------|---------------------------------------------------------------------------------------|--------|-------|
| MIL P/N M12883            | APCD P/N  | Mounting Stud | QTY | Size <sup>1</sup> | Contact P/N | Config. | Mating Relay                                                                          | Weight |       |
|                           |           |               |     |                   |             |         |                                                                                       | Pounds | Grams |
| /40-13                    | RSE116661 | Loose         | 14  | 16/16             | /92-533     | A       | M83536/15-022, M83536/16-006,-014,-031,-034<br>M83726/1,2,3,4,28,29,30,31*, M27709-02 | .100   | 60    |
| /40-14                    | RSE116663 | Loose         | 14  | 16/16             | /5-/92-533  | B       | M83536/17-002,-005                                                                    |        |       |
| /40-15                    | RSE116665 | Loose         | 14  | 16/16             | /5-/92-533  | C       |                                                                                       |        |       |
| /40-16                    | RSE116667 | Loose         | 14  | 16/16             | /92-533     | D       | Leach Corp KA-D4E & J                                                                 |        |       |
| /40-17                    | RSE116669 | Loose         | 14  | 16/20             | /92-534     | A       | M83536/15-022, M83536/16-006,-014,-031,-034<br>M83726/1,2,3,4,28,29,31,N27709-02      |        |       |
| /40-18                    | RSE116671 | Loose         | 16  | 16/16             | /92-533     | E       | M83536/18-002,005,008,012<br>M83536/19-002,008,012, M83536/20-002                     |        |       |
| /40-19                    | RSE116673 | Fixed         | 14  | 16/16             | /92-533     | A       | M83536/15-022, M83536/16-006,-014,-031,-034<br>M83726/1,2,3,4,28,29,31,N27709-02      |        |       |
| /40-20                    | RSE116675 | Fixed         | 14  | 16/16             | /92-533     | B       | M83536/17-002,-005                                                                    |        |       |
| /40-21                    | RSE116677 | Fixed         | 14  | 16/16             | /92-533     | C       |                                                                                       |        |       |
| /40-22                    | RSE116679 | Fixed         | 14  | 16/16             | /92-533     | D       | Leach Corp KA-D4E & J                                                                 |        |       |
| /40-23                    | RSE116681 | Fixed         | 14  | 16/20             | /92-534     | A       | M83536/15-022, M83536/16-006,-014,-031,-034<br>M83726/1,2,3,4,28,29,31,M27709-02      |        |       |
| /40-24                    | RSE116683 | Fixed         | 16  | 16/16             | /92-533     | E       | M83536/18-002,-005,-008,-012<br>M83536/19-002,-008,-012, M83536/20-002                |        |       |

<sup>1</sup> Mating End/Wire Barrel



**Mates with M83536, M6106 Relays**

### Operating Range

**Temperature:** -65°C to 125°C

**Insulation Resistance:** 1000 Megaohms Min.

**Dielectric Withstanding Voltage:** 1500 VRMS at Sea Level 500 VRMS at 80,000 ft.

**Vibration:** MIL-STD-202, Method 204 Test Condition G

**Shock:** MIL-STD-202, Method 213 Test Condition C

### Materials

**Socket Body:** Polyetherimide per ASTM-D5205

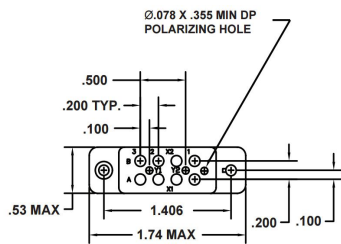
**Grommet:** Silicone Rubber per A-A-59588

**Hardware:** Stainless Steel or Steel w/Cadmium Chromate Finish

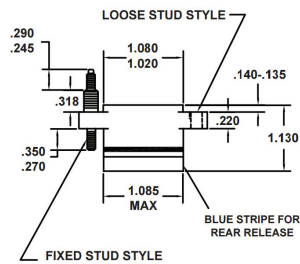
**Contact Retainers:** Stainless Steel

**Socket Contacts:** Stainless Steel, Hard Gold Plated in Accordance with SAE-AMS-2422

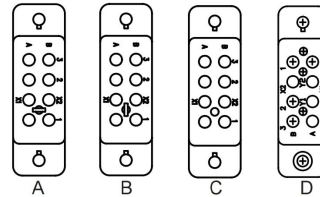
### Dimensions



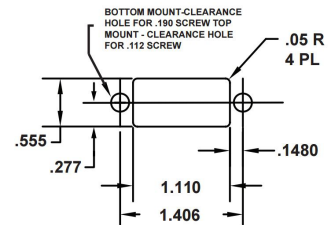
Top View



Side View



Socket Configurations



Recommended Mounting Panel Cutout

| EXTENDED HEIGHT RELAY SOCKETS |           |               |     |       |             |         |                                                                  |        |       |
|-------------------------------|-----------|---------------|-----|-------|-------------|---------|------------------------------------------------------------------|--------|-------|
| MIL P/N M12883                | APCD P/N  | Mounting Stud | QTY | Size¹ | Contact P/N | Config. | Mating Relay                                                     | Weight |       |
|                               |           |               |     |       |             |         |                                                                  | Pounds | Grams |
| /41-01                        | RSL116091 | Loose         | 8   | 16/16 | /5-116      | C       | M83536/9-006, 015, 024, 035<br>M83536/10-006, 015, 024, 034, 038 | .073   | 33    |
| /41-02                        | RSL116093 | Loose         | 8   | 16/16 | /5-116      | B       | M83536/11-002, 004, 007                                          |        |       |
| /41-03                        | RSL116095 | Loose         | 8   | 16/16 | /5-116      | A       | Leach Corp JA-D4E & J                                            |        |       |
| /41-04                        | RSL116097 | Loose         | 8   | 16/20 | /5-116      | C       | M83536/9-006, 015, 024, 035<br>M83536/10-006, 015, 024, 034, 038 |        |       |
| /41-05                        | RSL116099 | Loose         | 8   | 16/16 | /5-116      | D       | M83536/12-008, /14-008                                           |        |       |
|                               |           |               |     | 22/22 | /5-TBD      |         |                                                                  |        |       |
| /41-06                        | RSL116063 | Fixed         | 8   | 16/16 | /5-116      | C       | M83536/9-006, 015, 024, 035<br>M83536/10-006, 015, 024, 034, 038 |        |       |
| /41-07                        | RSL116065 | Fixed         | 8   | 16/16 | /5-116      | B       | M83536/11-002, 004, 007                                          |        |       |
| /41-08                        | RSL116067 | Fixed         | 8   | 16/20 | /5-116      | A       | Leach Corp JA-D4E & J                                            |        |       |
| /41-09                        | RSL116069 | Fixed         | 8   | 16/16 | /5-116      | C       | M83536/9-006, 015, 024, 035<br>M83536/10-006, 015, 024, 034, 038 |        |       |
| /41-10                        | RSL116071 | Fixed         | 8   | 16/16 | /5-116      | D       | M83536/12-008, /14-008                                           |        |       |
|                               |           |               |     | 22/22 | /5-TBD      |         |                                                                  |        |       |

<sup>1</sup> Mating End/Wire Barrel

# Low Profile RSE 2 Pole/10 Amp

MIL-PRF-12883/41

## Operating Range

**Temperature:** -65°C to 125°C

**Insulation Resistance:** 1000 Megaohms Min.

**Dielectric Withstanding Voltage:** 1500 VRMS at Sea Level 500 VRMS at 80,000 ft.

**Vibration:** MIL-STD-202, Method 204 Test Condition G

**Shock:** MIL-STD-202, Method 213 Test Condition C

## Materials

**Socket Body:** Polyetherimide per ASTM-D5205

**Grommet:** Silicone Rubber per A-A-59588

**Hardware:** Stainless Steel or Steel w/Cadmium Chromate Finish

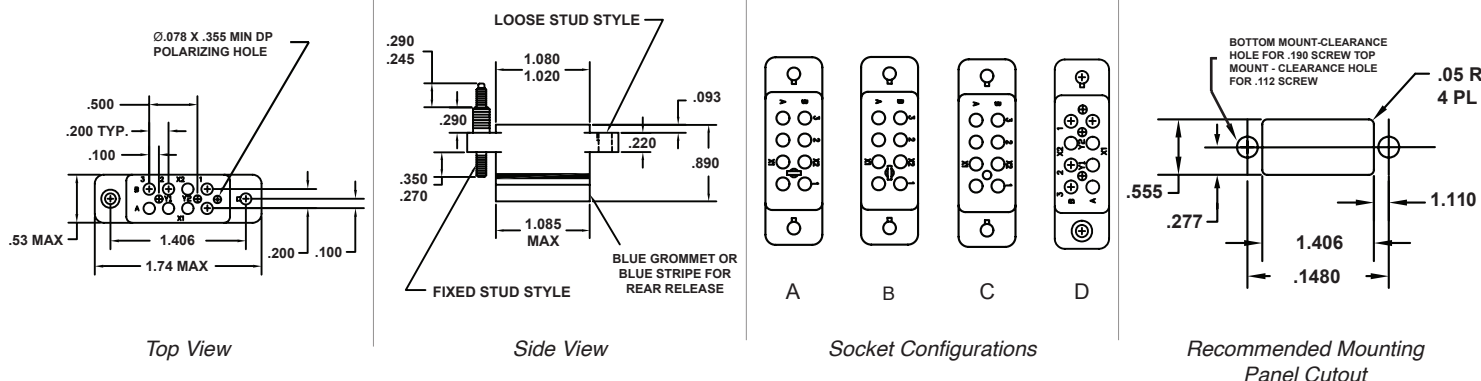
**Contact Retainers:** Stainless Steel

**Socket Contacts:** Stainless Steel, Hard Gold Plated in Accordance with SAE-AMS-2422



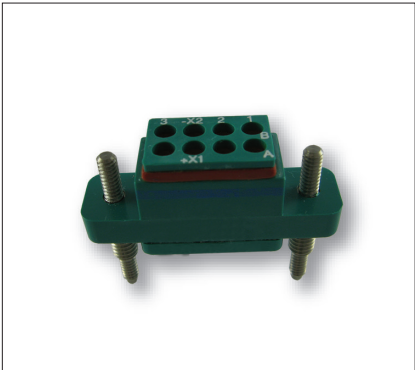
**Mates with M83536, M6106 Relays**

## Dimensions



| LOW PROFILE RELAY SOCKETS |           |               |     |                   |             |         |                                                                   |        |       |
|---------------------------|-----------|---------------|-----|-------------------|-------------|---------|-------------------------------------------------------------------|--------|-------|
| MIL P/N M12883            | APCD P/N  | Mounting Stud | QTY | Size <sup>1</sup> | Contact P/N | Config. | Mating Relay                                                      | Weight |       |
|                           |           |               |     |                   |             |         |                                                                   | Pounds | Grams |
| /41-11                    | RSL116091 | Loose         | 8   | 16/16             | /92-533     | C       | M83536/9-006, 015, 024, 035<br>M83536/10-006, 015, 024, 034, 038  | .055   | 25    |
| /41-12                    | RSL116093 | Loose         | 8   | 16/16             | /92-533     | B       | M83536/11-002, 004, 007                                           |        |       |
| /41-13                    | RSL116095 | Loose         | 8   | 16/16             | /92-533     | A       | TBD                                                               |        |       |
| /41-14                    | RSL116097 | Loose         | 8   | 16/20             | /92-533     | C       | Leach Corp JA-D4E & J                                             |        |       |
| /41-15                    | RSL116099 | Loose         | 8   | 16/16             | /92-533     | D       | M83536/13-002, 005, -008, -012<br>M83536/13-002, -005, -008, -012 |        |       |
|                           |           |               | 2   | 22/22             | /92-551     |         |                                                                   |        |       |
| /41-16                    | RSL116063 | Fixed         | 8   | 16/16             | /92-533     | C       | M83536/9-006, 015, 024, 035<br>M83536/10-006, 015, 024, 034, 038  |        |       |
| /41-17                    | RSL116065 | Fixed         | 8   | 16/16             | /92-533     | B       | M83536/11-002, 004, 007                                           |        |       |
| /41-18                    | RSL116067 | Fixed         | 8   | 16/16             | /92-533     | A       | Leach Corp JA-D4E & J                                             |        |       |
| /41-19                    | RSL116069 | Fixed         | 8   | 16/20             | /92-534     | C       | M83536/9-006, 015, 024, 035<br>M83536/10-006, 015, 024, 034, 038  |        |       |
| /41-20                    | RSL116071 | Fixed         | 8   | 16/16             | /92-553     | D       | M83536/13-002,-005,-008,-012<br>M83536/13-002,-005,-008,-012      |        |       |
|                           |           |               | 2   | 22/22             | /92-551     |         |                                                                   |        |       |

1. Mating End/Wire Barrel



Mates with M83536, M6106 Relays

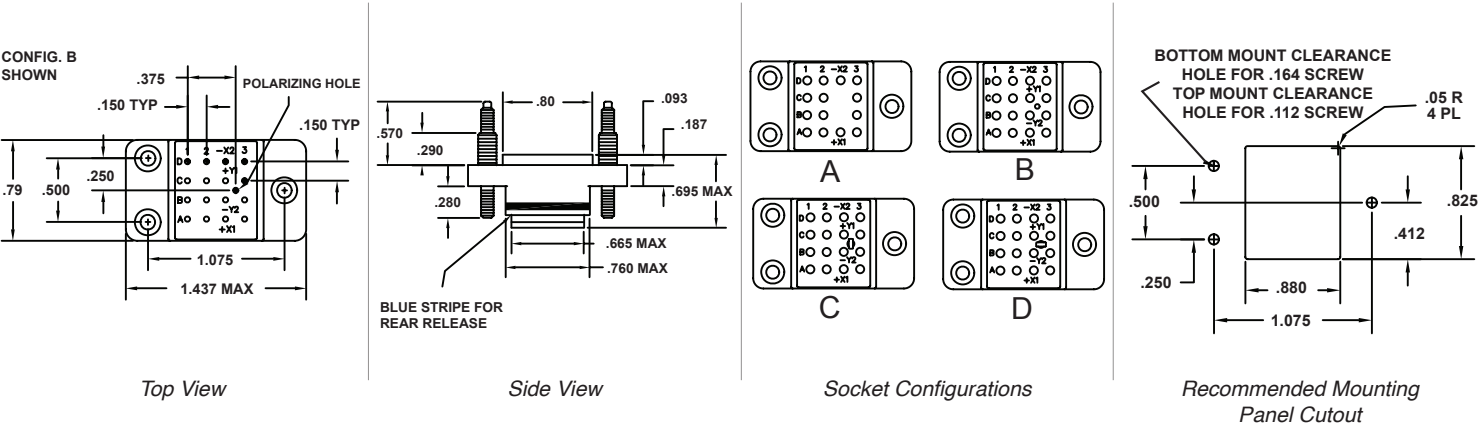
Operating Range

- Temperature: -65°C to 125°C
- Insulation Resistance: 1000 Megaohms Min.
- Dielectric Withstanding Voltage: 1000 VRMS at Sea Level 500 VRMS at 80,000 ft.
- Vibration: MIL-STD-202, Method 204 Test Condition G
- Shock: MIL-STD-202, Method 213 Test Condition C

Materials

- Socket Body: Polyetherimide per ASTM-D5205
- Grommet: Silicone Rubber per A-A-59588
- Hardware: Stainless Steel or Steel w/Cadmium Chromate Finish
- Contact Retainers: Stainless Steel
- Socket Contacts: Stainless Steel, Hard Gold Plated in Accordance with SAE-AMS-2422

Dimensions



| LOW PROFILE RELAY SOCKETS |           |               |     |       |             |         |                                                             |        |       |
|---------------------------|-----------|---------------|-----|-------|-------------|---------|-------------------------------------------------------------|--------|-------|
| MIL P/N M12883            | APCD P/N  | Mounting Stud | QTY | Size¹ | Contact P/N | Config. | Mating Relay                                                | Weight |       |
|                           |           |               |     |       |             |         |                                                             | Pounds | Grams |
| /44-01                    | RSE120151 | Fixed         | 8   | 20/20 | /101-553    | A       | M83536/5-006,-014,-022,-030<br>M83536/6,-006,-014,-022,-032 | .055   | 25    |
| /44-02                    | RSE120153 | Fixed         | 8   | 20/20 | /101-553    | B       | M83536/7-002                                                |        |       |
| /44-03                    | RSE120155 | Fixed         | 8   | 20/20 | /101-553    | C       |                                                             |        |       |
| /44-04                    | RSE120157 | Fixed         | 8   | 20/20 | /101-553    | D       |                                                             |        |       |

1: Mating End/Wire Barrel

## Operating Range

**Temperature:** -65°C to 125°C

**Insulation Resistance:** 1000 Megaohms Min.

**Dielectric Withstanding Voltage:** 1000 VRMS at Sea Level 500 VRMS at 80,000 ft.

**Vibration:** MIL-STD-202, Method 204 Test Condition G

**Shock:** MIL-STD-202, Method 213 Test Condition C

## Materials

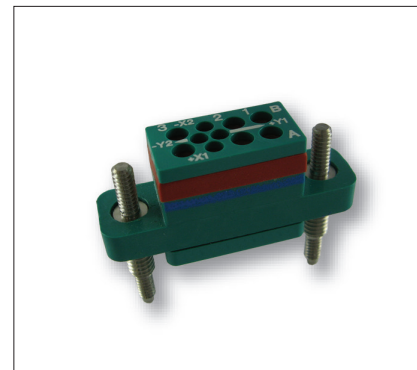
**Socket Body:** Polyetherimide per ASTM-D5205

**Grommet:** Silicone Rubber per A-A-59588

**Hardware:** Stainless Steel or Steel w/Cadmium Chromate Finish

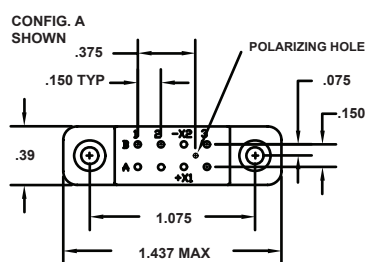
**Contact Retainers:** Stainless Steel

**Socket Contacts:** Stainless Steel, Hard Gold Plated in Accordance with SAE-AMS-2422

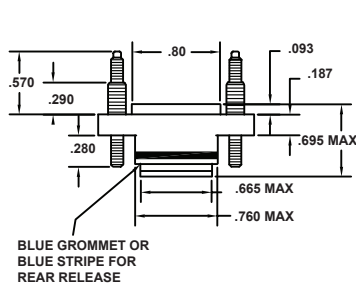


Mates with M83536, M6106 Relays

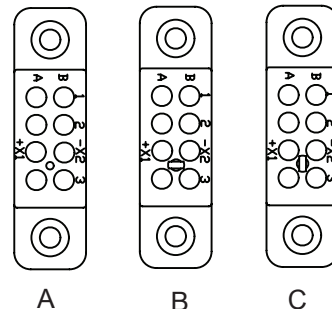
## Dimensions



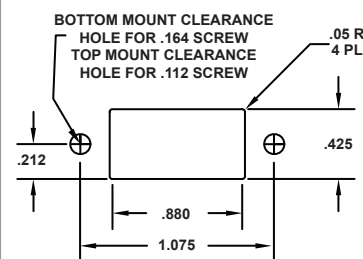
Top View



Side View



Socket Configurations



Recommended Mounting Panel Cutout

| LOW PROFILE RELAY SOCKETS |           |               |     |       |             |         |                                                                  |        |       |
|---------------------------|-----------|---------------|-----|-------|-------------|---------|------------------------------------------------------------------|--------|-------|
| MIL P/N M12883            | APCD P/N  | Mounting Stud | QTY | Size¹ | Contact P/N | Config. | Mating Relay                                                     | Weight |       |
|                           |           |               |     |       |             |         |                                                                  | Pounds | Grams |
| /45-01                    | RSE120159 | Fixed         | 8   | 20/20 | /101-553    | A       | M83536/1-006, -015, -024, -033<br>M83536/2-006, -015, -024, -035 | .033   | 15    |
| /45-02                    | RSE120161 | Fixed         | 8   | 20/20 | /101-553    | B       |                                                                  |        |       |
| /45-03                    | RSE120163 | Fixed         | 8   | 20/20 | /101-553    | C       |                                                                  |        |       |

1. Mating End/Wire Barrel



Mates with M6106/38 Relays

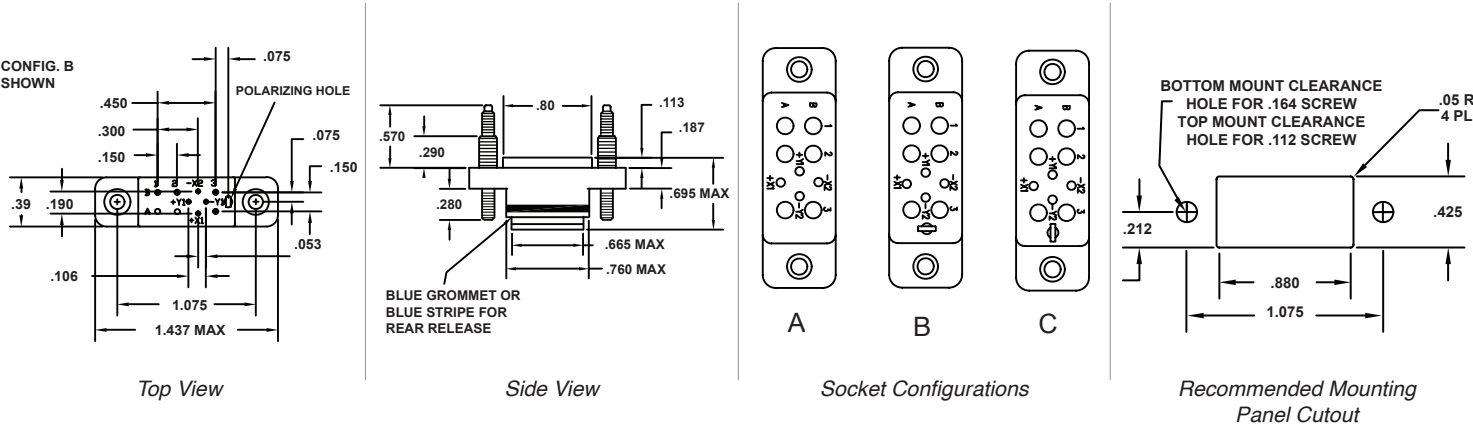
Operating Range

- Temperature: -65°C to 125°C
- Insulation Resistance: 1000 Megaohms Min.
- Dielectric Withstanding Voltage: 1000 VRMS at Sea Level 500 VRMS at 80,000 ft.
- Vibration: MIL-STD-202, Method 204 Test Condition G
- Shock: MIL-STD-202, Method 213 Test Condition C

Materials

- Socket Body: Polyetherimide per ASTM-D5205
- Grommet: Silicone Rubber per A-A-59588
- Hardware: Stainless Steel or Steel w/Cadmium Chromate Finish
- Contact Retainers: Stainless Steel
- Socket Contacts: Stainless Steel, Hard Gold Plated in Accordance with SAE-AMS-2422

Dimensions



| LOW PROFILE RELAY SOCKETS |           |               |     |       |             |         |              |        |       |
|---------------------------|-----------|---------------|-----|-------|-------------|---------|--------------|--------|-------|
| MIL P/N M12883            | APCD P/N  | Mounting Stud | QTY | Size¹ | Contact P/N | Config. | Mating Relay | Weight |       |
|                           |           |               |     |       |             |         |              | Pounds | Grams |
| /45-04                    | RSE120165 | Fixed         | 6   | 20/20 | /101-553    | A       | M6106/38-002 | .033   | 15    |
|                           |           |               | 4   | 20/20 | /101-552    |         |              |        |       |
| /45-05                    | RSE120167 | Fixed         | 6   | 20/20 | /101-553    | B       |              |        |       |
|                           |           |               | 4   | 20/20 | /101-552    |         |              |        |       |
| /45-06                    | RSE120169 | Fixed         | 6   | 20/20 | /101-553    | C       |              |        |       |
|                           |           |               | 4   | 20/20 | /101-552    |         |              |        |       |

1. Mating End/Wire Barrel

## Operating Range

**Temperature:** -65°C to 125°C

**Insulation Resistance:** 1000 Megaohms Min.

**Dielectric Withstanding Voltage:** 1250 VRMS at Sea Level 500 VRMS at 80,000 ft.

**Vibration:** MIL-STD-202, Method 204 Test Condition G

**Shock:** MIL-STD-202, Method 213 Test Condition C

## Materials

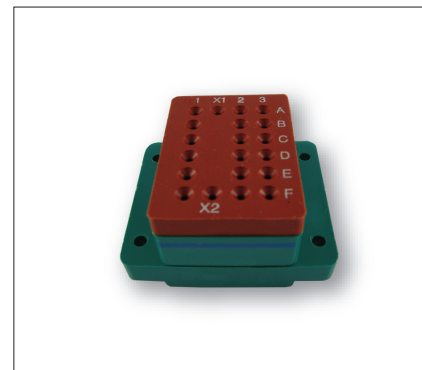
**Socket Body:** Polyetherimide per ASTM-D5205

**Grommet:** Silicone Rubber per A-A-59588

**Hardware:** Stainless Steel or Steel w/Cadmium Chromate Finish

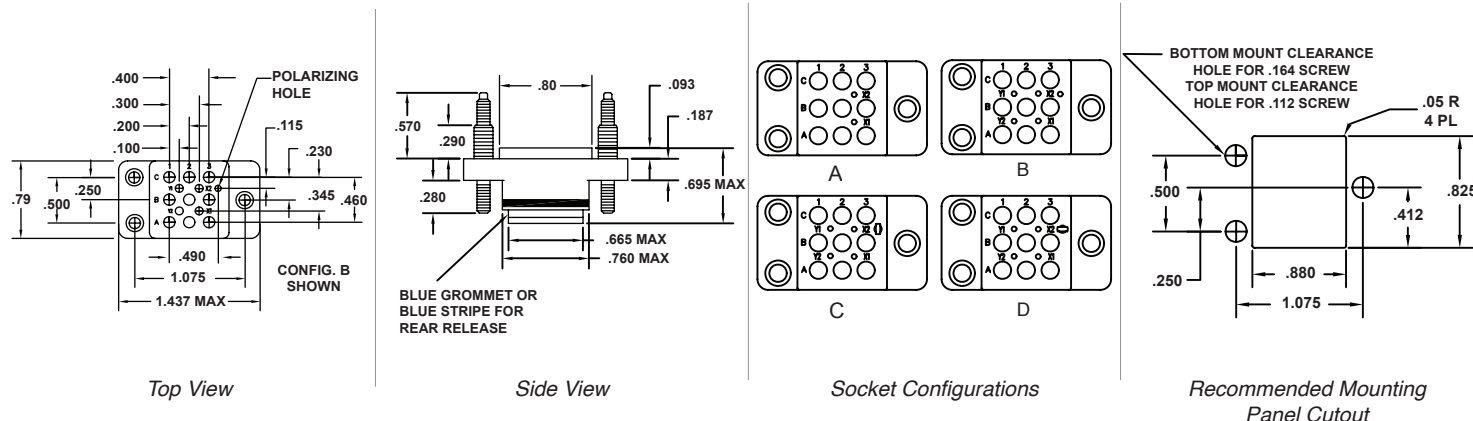
**Contact Retainers:** Stainless Steel

**Socket Contacts:** Stainless Steel, Hard Gold Plated in Accordance with SAE-AMS-2422



Mates with M83536, M6106 Relays

## Dimensions



| LOW PROFILE RELAY SOCKETS |           |               |     |       |             |         |                                                              |        |       |
|---------------------------|-----------|---------------|-----|-------|-------------|---------|--------------------------------------------------------------|--------|-------|
| MIL P/N M12883            | APCD P/N  | Mounting Stud | QTY | Size¹ | Contact P/N | Config. | Mating Relay                                                 | Weight |       |
|                           |           |               |     |       |             |         |                                                              | Pounds | Grams |
| /46-01                    | RSE116747 | Fixed         | 9   | 16/16 | /101-554    | A       | M83536/21-006,-014,-022,-030<br>M83536/22-006,-014,-022,-030 | .055   | 25    |
|                           |           |               | 2   | 20/20 | /101-553    |         |                                                              |        |       |
| /46-02                    | RSE116749 | Fixed         | 9   | 16/16 | /101-554    | B       | M6106/40-002                                                 |        |       |
|                           |           |               | 2   | 20/20 | /101-553    |         |                                                              |        |       |
| /46-03                    | RSE116751 | Fixed         | 9   | 16/16 | /101-554    | C       |                                                              |        |       |
|                           |           |               | 2   | 20/20 | /101-553    |         |                                                              |        |       |
| /46-04                    | RSE116753 | Fixed         | 9   | 16/16 | /101-554    | D       |                                                              |        |       |
|                           |           |               | 2   | 20/20 | /101-553    |         |                                                              |        |       |

1. Mating End/Wire Barrel



**Mates with M83536, M6106 Relays**

### Operating Range

**Temperature:** -65°C to 125°C

**Insulation Resistance:** 1000 Megaohms Min.

**Dielectric Withstanding Voltage:** 1500 VRMS at Sea Level 500 VRMS at 80,000 ft.

**Vibration:** MIL-STD-202, Method 204 Test Condition G

**Shock:** MIL-STD-202, Method 213 Test Condition C

### Materials

**Socket Body:** Polyetherimide per ASTM-D5205

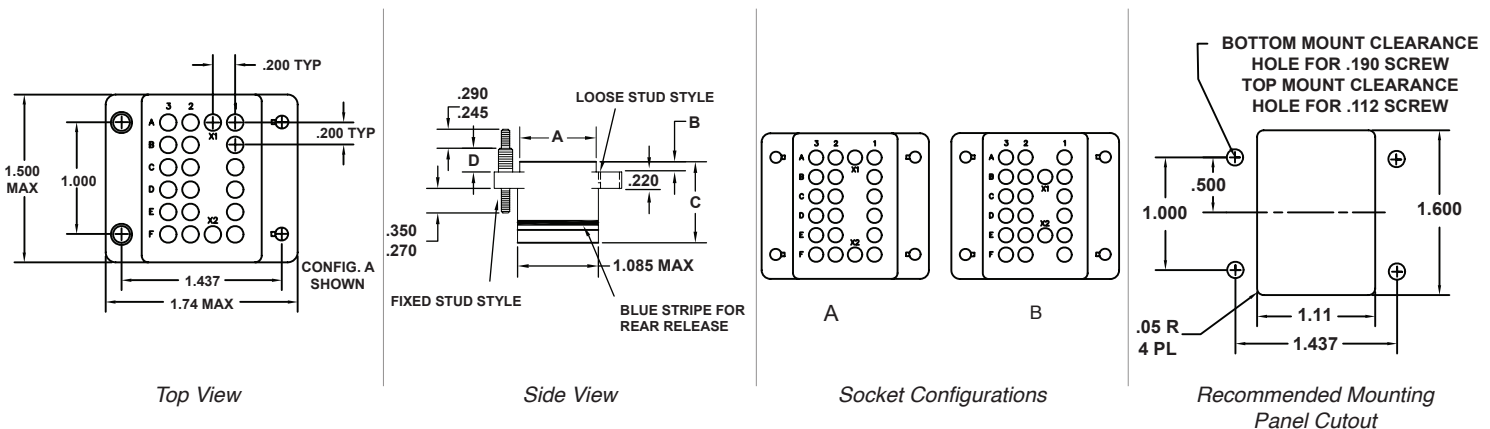
**Grommet:** Silicone Rubber per A-A-59588

**Hardware:** Stainless Steel or Steel w/Cadmium Chromate Finish

**Contact Retainers:** Stainless Steel

**Socket Contacts:** Stainless Steel, Hard Gold Plated in Accordance with SAE-AMS-2422

### Dimensions



| LOW PROFILE RELAY SOCKETS     |           |               |     |       |             |         |                              |        |       |
|-------------------------------|-----------|---------------|-----|-------|-------------|---------|------------------------------|--------|-------|
| MIL P/N M12883                | APCD P/N  | Mounting Stud | QTY | Size¹ | Contact P/N | Config. | Mating Relay                 | Weight |       |
|                               |           |               |     |       |             |         |                              | Pounds | Grams |
| /47-01                        | RSE116755 | Loose         | 20  | 16/16 | /92-533     | A       | M83536/25-002, M83536/26-002 | .144   | 65    |
| /47-02                        | RSE116757 | Loose         | 20  | 16/16 | /92-533     | B       | M83536/27-002                |        |       |
| /47-04                        | RSE116761 | Fixed         | 20  | 16/16 | /92-533     | C       | M83536/25-002, M83536/26-002 |        |       |
| /47-05                        | RSE116763 | Fixed         | 20  | 16/16 | /92-533     | D       | M83536/27-002                |        |       |
| EXTENDED HEIGHT RELAY SOCKETS |           |               |     |       |             |         |                              |        |       |
| /47-07                        | RSL116101 | Loose         | 20  | 16/16 | /5-116      | A       | M83536/25-002, M83536/26-002 | .176   | 80    |
| /47-08                        | RSL116103 | Loose         | 20  | 16/16 | /5-116      | B       | M83536/27-002                |        |       |
| /47-10                        | RSL116073 | Fixed         | 20  | 16/16 | /5-116      | A       | M83536/25-002, M83536/26-002 |        |       |
| /47-11                        | RSL116075 | Fixed         | 20  | 16/16 | /5-116      | B       | M83536/27-002                |        |       |

1. Mating End/Wire Barrel



## Operating Range

**Temperature:** -65°C to 125°C

**Insulation Resistance:** 1000 Megaohms Min.

**Dielectric Withstanding Voltage:** 1500 VRMS at Sea Level 500 VRMS at 80,000 ft.

**Vibration:** MIL-STD-202, Method 204 Test Condition G

**Shock:** MIL-STD-202, Method 213 Test Condition C

## Materials

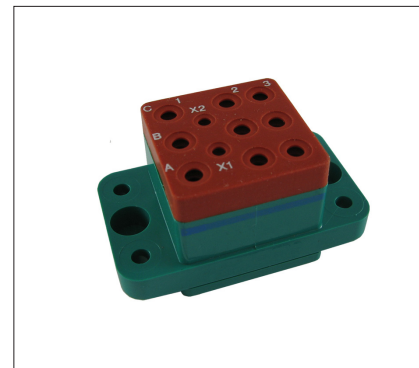
**Socket Body:** Polyetherimide per ASTM-D5205

**Grommet:** Silicone Rubber per A-A-59588

**Hardware:** Stainless Steel or Steel w/Cadmium Chromate Finish

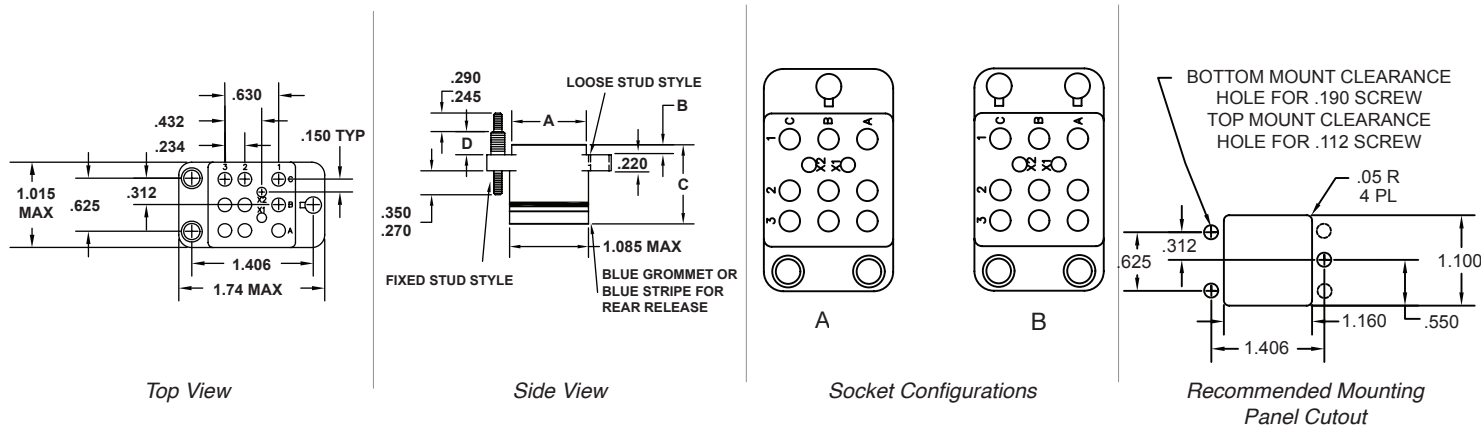
**Contact Retainers:** Stainless Steel

**Socket Contacts:** Stainless Steel, Hard Gold Plated in Accordance with SAE-AMS-2422



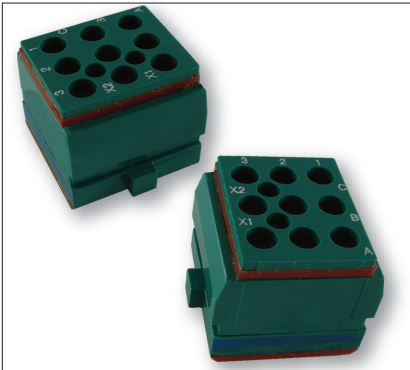
**Mates with MS27743 Relays**

## Dimensions



| LOW PROFILE RELAY SOCKETS     |           |               |     |       |             |         |                           |        |       |
|-------------------------------|-----------|---------------|-----|-------|-------------|---------|---------------------------|--------|-------|
| MIL P/N M12883                | APCD P/N  | Mounting Stud | QTY | Size¹ | Contact P/N | Config. | Mating Relay              | Weight |       |
|                               |           |               |     |       |             |         |                           | Pounds | Grams |
| /48-01                        | RSE112061 | Loose         | 2   | 16/16 | /92-533     | A       | MS27743-06, -12, -18, -24 | .109   | 49    |
|                               |           |               | 9   | 12/12 | /92-535     | A       | MS27743-06, -12, -18, -24 |        |       |
| /48-02                        | RSE112063 | Fixed         | 2   | 16/16 | /92-533     | A       | MS27743-09, -15, -21, -27 |        |       |
|                               |           |               | 9   | 12/12 | /92-535     | A       | MS27743-09, -15, -21, -27 |        |       |
| /48-05                        | RSE112065 | Loose         | 2   | 16/16 | /92-533     | B       | MS27743-06, -12, -18, -24 |        |       |
|                               |           |               | 9   | 12/12 | /92-535     | B       | MS27743-06, -12, -18, -24 |        |       |
| /48-06                        | RSE112067 | Fixed         | 2   | 16/16 | /92-533     | B       | MS27743-09, -15, -21, -27 |        |       |
|                               |           |               | 9   | 12/12 | /92-535     | B       | MS27743-09, -15, -21, -27 |        |       |
| EXTENDED HEIGHT RELAY SOCKETS |           |               |     |       |             |         |                           |        |       |
| /48-03                        | RSL112105 | Loose         | 2   | 16/16 | /5-116      | A       | MS27743-06, -12, -18, -24 | .129   | 55    |
|                               |           |               | 9   | 12/12 | /5-118      | A       | MS27743-06, -12, -18, -24 |        |       |
| /48-04                        | RSL112101 | Fixed         | 2   | 16/16 | /5-116      | A       | MS27743-09, -15, -21, -27 |        |       |
|                               |           |               | 9   | 12/12 | /5-118      | A       | MS27743-09, -15, -21, -27 |        |       |
| /48-07                        | RSL112107 | Loose         | 2   | 16/16 | /5-116      | B       | MS27743-06, -12, -18, -24 |        |       |
|                               |           |               | 9   | 12/12 | /5-118      | B       | MS27743-06, -12, -18, -24 |        |       |
| /48-08                        | RSL112103 | Fixed         | 2   | 16/16 | /5-116      | B       | MS27743-09, -15, -21, -27 |        |       |
|                               |           |               | 9   | 12/12 | /5-118      | B       | MS27743-09, -15, -21, -27 |        |       |

1. Mating End/Wire Barrel



**Mates with MS83726, M83536  
& M6106 Relays**

## Operating Range

**Temperature:** -65°C to 125°C

**Insulation Resistance:** 1000 Megaohms Min.

**Dielectric Withstanding Voltage:** 1500 VRMS at Sea Level 700 VRMS at 80,000 ft.

**Vibration:** MIL-STD-202, Method 204 Test Condition G

**Shock:** MIL-STD-202, Method 213 Test Condition C

## Materials

**Socket Body:** Polyetherimide per ASTM-D5205

**Grommet:** Silicone Rubber per A-A-59588

**Hardware:** Stainless Steel or Steel w/Cadmium Chromate Finish

**Contact Retainers:** Stainless Steel

**Socket Contacts:** Stainless Steel, Hard Gold Plated in Accordance with SAE-AMS-2422

## Dimensions

### M12883/53-001 Mounting Track Dimensions

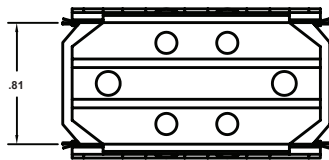
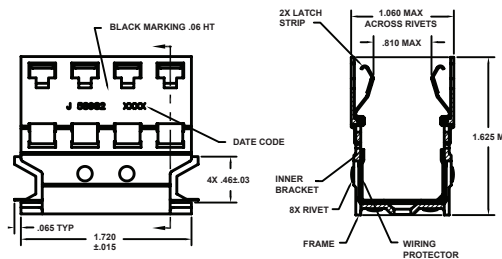
**Outer Track:** Aluminum Alloy per QQ-A-225 Chemical Coating per MIL-C-5541, Class 3

**Inner Brackets and Rivets:** Stainless Steel per QQ-S-766, Passivated

**Latch:** Beryllium copper #172 per QQ-C-533 Bright Finish

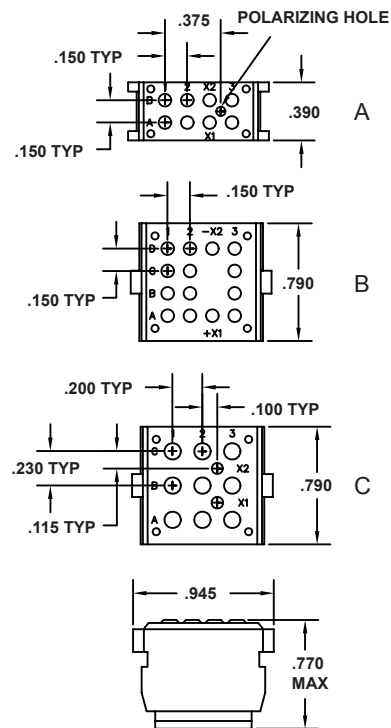
**Wiring Protector:** Aramid Paper per MIL-I-24202

**Track Operating Range:** -65°C to 125°C



Track Dimensions

| Track Weight |       |
|--------------|-------|
| Pounds       | Grams |
| .053         | 24    |



Socket Dimensions

| LOW PROFILE RELAY SOCKETS |           |     |       |             |         |                                 |        |       |
|---------------------------|-----------|-----|-------|-------------|---------|---------------------------------|--------|-------|
| MIL P/N M12883            | APCD P/N  | QTY | Size¹ | Contact P/N | Config. | Mating Relay                    | Weight |       |
|                           |           |     |       |             |         |                                 | Pounds | Grams |
| /52-001                   | RSE116175 | 8   | 20/20 | /101-553    | A       | M83536/2-028,<br>M83726/27, /25 | .016   | 7     |
| /52-002                   | RSE116185 | 14  | 20/20 | /101-533    | B       | M83536/6-025                    | .031   | 14    |
| /52-003                   | RSE116195 | 9   | 16/16 | /101-554    | C       | M83536/22-025                   |        |       |
|                           |           | 2   | 20/20 | /101-553    |         |                                 |        |       |

1. Mating End/Wire Barrel

## Operating Range

**Temperature:** -65°C to 125°C

**Insulation Resistance:** 1000 Megaohms Min.

**Dielectric Withstanding Voltage:** 1500 VRMS at Sea Level 500 VRMS at 80,000 ft.

**Vibration:** MIL-STD-202, Method 204 Test Condition G

**Shock:** MIL-STD-202, Method 213 Test Condition C

## Materials

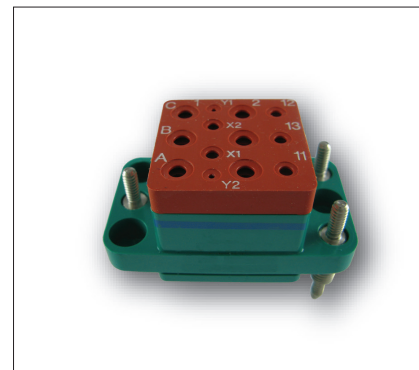
**Socket Body:** Polyetherimide per ASTM-D5205

**Grommet:** Silicone Rubber per A-A-59588

**Hardware:** Stainless Steel or Steel w/Cadmium Chromate Finish

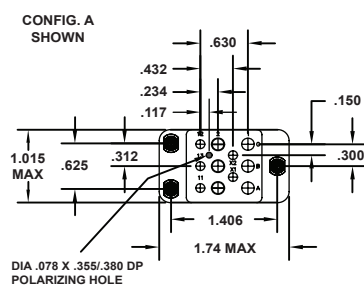
**Contact Retainers:** Stainless Steel

**Socket Contacts:** Stainless Steel, Hard Gold Plated in Accordance with SAE-AMS-2422

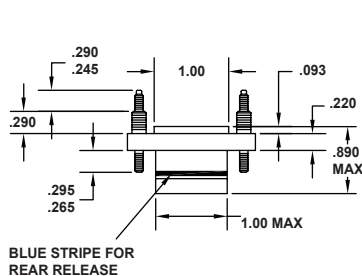


**Mates with M6106/12, /13 & MS27742 Relays**

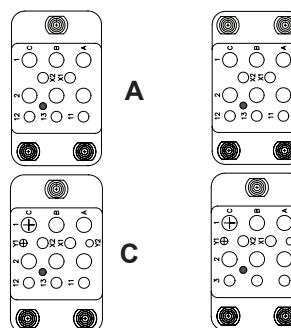
## Dimensions



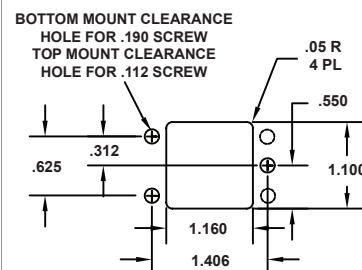
Top View



Side View



Socket Configurations



Recommended Mounting Panel Cutout

| LOW PROFILE RELAY SOCKETS |           |               |     |       |             |         |                                  |        |       |
|---------------------------|-----------|---------------|-----|-------|-------------|---------|----------------------------------|--------|-------|
| MIL P/N M12883            | APCD P/N  | Mounting Stud | QTY | Size¹ | Contact P/N | Config. | Mating Relay                     | Weight |       |
|                           |           |               |     |       |             |         |                                  | Pounds | Grams |
| /54-01                    | RSE116627 | Fixed         | 5   | 16/16 | /92-533     | A       | M6106/13-002,-008,-011,-013,-015 | .132   | 60    |
|                           |           |               | 6   | 12/12 | /92-535     |         |                                  |        |       |
| /54-02                    | RSE116631 | Fixed         | 5   | 16/16 | /92-533     | B       | M6106/13-004                     |        |       |
|                           |           |               | 6   | 12/12 | /92-535     |         |                                  |        |       |
| /54-03                    | RSE116629 | Fixed         | 5   | 16/16 | /92-533     | C       | M6106/12-002                     | .154   | 70    |
|                           |           |               | 6   | 12/12 | /92-535     |         |                                  |        |       |
| /54-04                    | RSE116635 | Fixed         | 5   | 16/16 | /92-533     | D       | MS27742-2                        |        |       |
|                           |           |               | 6   | 12/12 | /92-535     |         |                                  |        |       |

<sup>1</sup> Mating End/Wire Barrel



Mates with M6106/19, 20 Relays

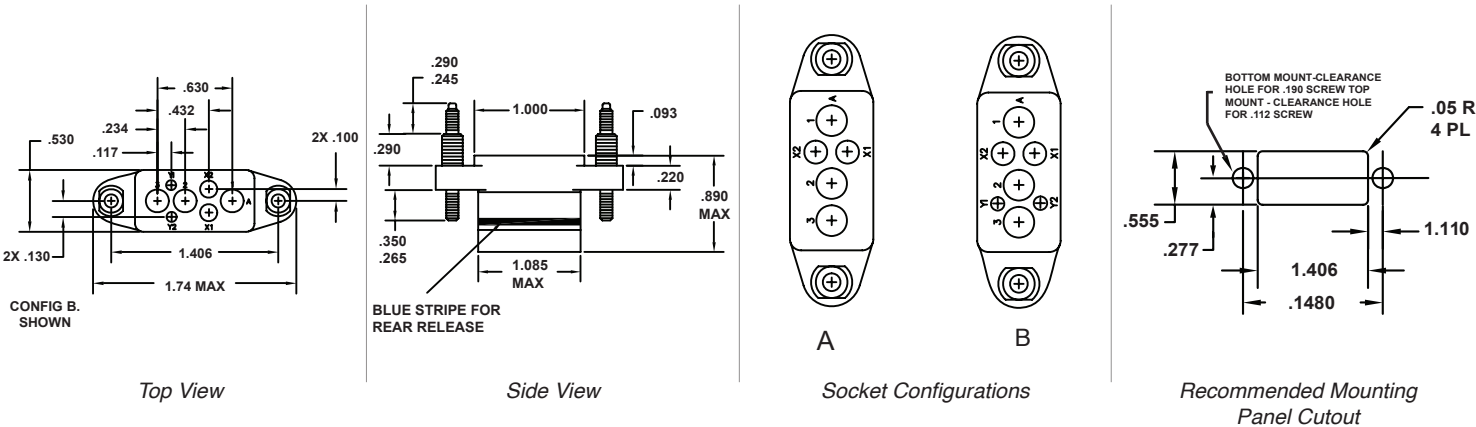
Operating Range

- Temperature: -65°C to 125°C
- Insulation Resistance: 1000 Megaohms Min.
- Dielectric Withstanding Voltage: 1500 VRMS at Sea Level 500 VRMS at 80,000 ft.
- Vibration: MIL-STD-202, Method 204 Test Condition G
- Shock: MIL-STD-202, Method 213 Test Condition C

Materials

- Socket Body: Polyetherimide per ASTM-D5205
- Grommet: Silicone Rubber per A-A-59588
- Hardware: Stainless Steel or Steel w/Cadmium Chromate Finish
- Contact Retainers: Stainless Steel
- Socket Contacts: Stainless Steel, Hard Gold Plated in Accordance with SAE-AMS-2422

Dimensions



| RELAY SOCKETS FOR 2 POLE/2AMP MICROMINATURE RELAYS |           |               |     |                   |             |         |                                      |        |       |
|----------------------------------------------------|-----------|---------------|-----|-------------------|-------------|---------|--------------------------------------|--------|-------|
| MIL P/N M12883                                     | APCD P/N  | Mounting Stud | QTY | Size <sup>1</sup> | Contact P/N | Config. | Mating Relay                         | Weight |       |
|                                                    |           |               |     |                   |             |         |                                      | Pounds | Grams |
| /54-01                                             | RSE112035 | Fixed         | 2   | 16/16             | /92-533     | A       | M6106/19-004, -007, -012, -017, -022 | .073   | 33    |
|                                                    |           |               | 3   | 12/12             | /92-535     |         |                                      |        |       |
| /54-02                                             | RSE112036 | Fixed         | 2   | 16/16             | /92-533     | A       | M6106/19-004, -007, -012, -017, -022 |        |       |
|                                                    |           |               | 3   | 12/12             | /92-535     |         |                                      |        |       |
| /54-03                                             | RSE112044 | Fixed         | 2   | 20/20             | /92-531     | B       | M6106/20-002                         |        |       |
|                                                    |           |               | 2   | 16/16             | /92-533     |         |                                      |        |       |
|                                                    |           |               | 3   | 12/12             | /92-535     |         |                                      |        |       |

1. Mating End/Wire Barrel

# RSE 2 & 3 Pole, 2 Amp

Micro-miniature Relay Sockets

## Operating Range

**Temperature:** -65°C to 125°C

**Insulation Resistance:** 1000 Megaohms Min.

**Dielectric Withstanding Voltage:** 2500 VRMS at Sea Level 700 VRMS at 80,000 ft.

**Vibration:** MIL-STD-202, Method 204 Test Condition G

**Shock:** MIL-STD-202, Method 213 Test Condition C

## Materials

**Socket Body:** Polyetherimide per ASTM-D5205

**Grommet:** Silicone Rubber per A-A-59588

**Hardware:** Stainless Steel or Steel w/Cadmium Chromate Finish

**Contact Retainers:** Stainless Steel

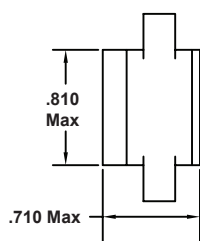
**Socket Contacts:** Stainless Steel, Hard Gold Plated in Accordance with SAE-AMS-2422



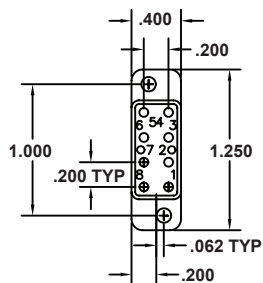
Mates with M39016 & M5757 Relays

## Dimensions

Side View

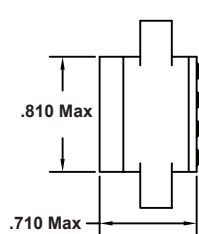


Top View

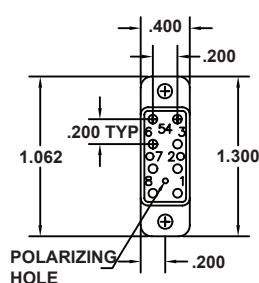


RSE120020

Side View

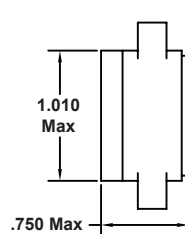


Top View

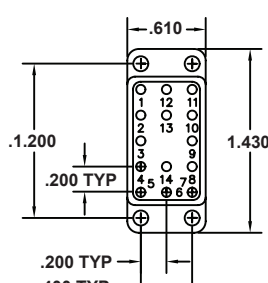


RSE120074

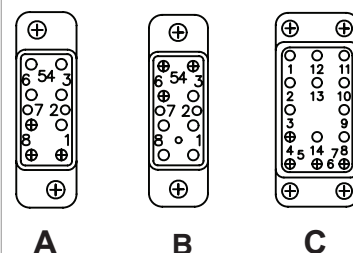
Side View



Top View



RSE120070



Socket Configurations

| RELAY SOCKETS FOR 2 POLE/2AMP MICROMINATURE RELAYS |     |       |             |         |                                   |        |       |
|----------------------------------------------------|-----|-------|-------------|---------|-----------------------------------|--------|-------|
| APCD P/N                                           | QTY | Size¹ | Contact P/N | Config. | Mating Relay                      | Weight |       |
|                                                    |     |       |             |         |                                   | Pounds | Grams |
| RSE120020                                          | 8   | 20/20 | CNS109900   | A       | MIL-R-5757/10-022,-044            | .024   | 11    |
| RSE120074                                          | 8   | 20/20 | CNS109900   | A       | MIL-R-39016/55-001,-013,-025,-037 |        |       |
| RELAY SOCKETS FOR 3 POLE/2AMP MICROMINATURE RELAYS |     |       |             |         |                                   |        |       |
| RSE120070                                          | 14  | 20/20 | CNS109900   | C       | MIL-R-39016/39-002,-008,-014      | .044   | 20    |

1. Mating End/Wire Barrel



**Mates with MIL-R-6106  
& MS27743 Relays**

### Operating Range

**Temperature:** -65°C to 125°C

**Insulation Resistance:** 1000 Megaohms Min.

**Dielectric Withstanding Voltage:** 1500 VRMS at Sea Level 500 VRMS at 80,000 ft.

**Vibration:** MIL-STD-202, Method 204 Test Condition G

**Shock:** MIL-STD-202, Method 213 Test Condition C

### Materials

**Socket Body:** Polyetherimide per ASTM-D5205

**Grommet:** Silicone Rubber per A-A-59588

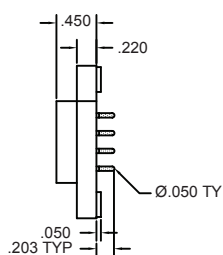
**Hardware:** Stainless Steel or Steel w/Cadmium Chromate Finish

**Contact Retainers:** Stainless Steel

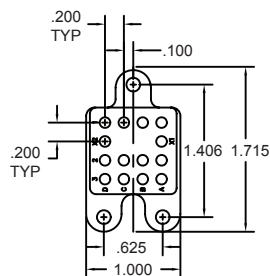
**Socket Contacts:** Stainless Steel, Hard Gold Plated in Accordance with SAE-AMS-2422

### Dimensions

Side View

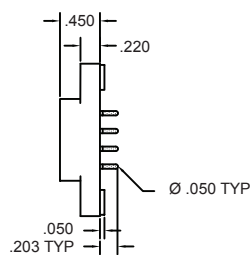


Top View

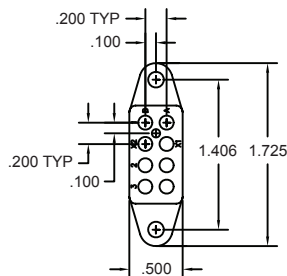


RSN116140

Side View

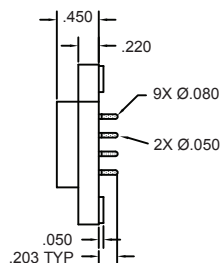


Top View

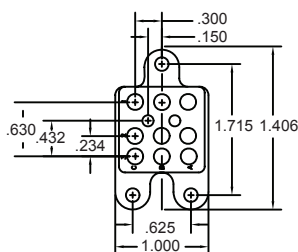


RSN116130

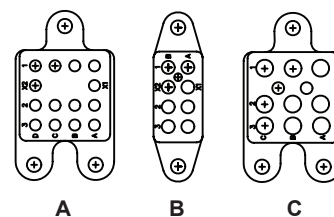
Side View



Top View



RSN112010



Socket Configurations

| LOW PROFILE RELAY SOCKETS |               |     |                   |             |         |                     |        |       |
|---------------------------|---------------|-----|-------------------|-------------|---------|---------------------|--------|-------|
| APCD P/N                  | Mounting Stud | QTY | Size <sup>1</sup> | Contact P/N | Config. | Mating Relay        | Weight |       |
|                           |               |     |                   |             |         |                     | Pounds | Grams |
| RSN116140                 | HEX           | 14  | 16/16             | /92-533     | A       | MIL-R-6106, MS27400 | .055   | 25    |
| RSN116130                 | HEX           | 8   | 16/16             | /92-533     | B       | MIL-R-6106, MS27401 | .033   | 15    |
| RSN112010                 | HEX           | 9   | 12/12             | /92-535     | C       | MIL-R-6106, MS27743 | .057   | 26    |
|                           |               | 2   | 16/16             | /92-533     |         |                     |        |       |

# 6 Pole/5 Amp, 4 Pole/10 Amp, 2 & 4 Pole/5Amp, 2 Pole/10Amp

## Non-Environmental Relay Sockets

### Operating Range

**Temperature:** -65°C to 125°C

**Insulation Resistance:** 1000 Megaohms Min.

**Dielectric Withstanding Voltage:** 1500 VRMS at Sea Level 500 VRMS at 80,000 ft.

**Vibration:** MIL-STD-202, Method 204 Test Condition G

**Shock:** MIL-STD-202, Method 213 Test Condition C

### Materials

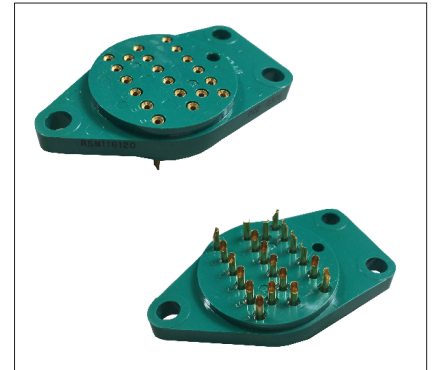
**Socket Body:** Polyetherimide per ASTM-D5205

**Grommet:** Silicone Rubber per A-A-59588

**Hardware:** Stainless Steel or Steel w/Cadmium Chromate Finish

**Contact Retainers:** Stainless Steel

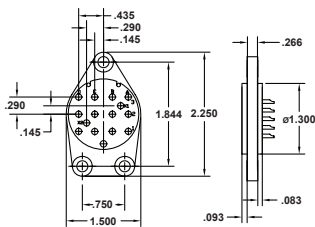
**Socket Contacts:** Stainless Steel, Hard Gold Plated in Accordance with SAE-AMS-2422



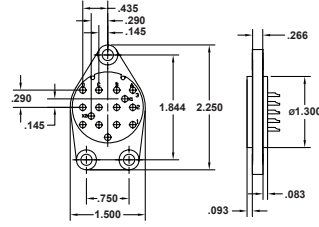
**Mates with M25027 & Series 9226, 9224, 9225, 9220, 9229, 9927 Leach Corp. Relay Sockets**

### Dimensions

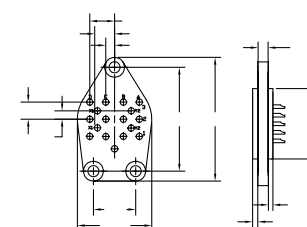
**RSN116820**



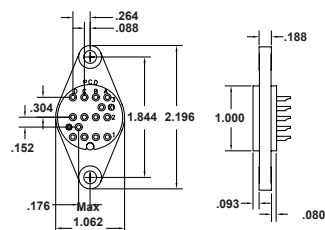
**RSN116890**



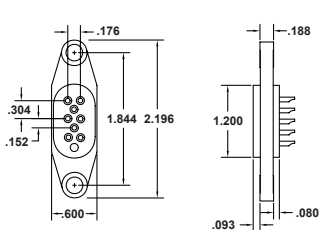
**RSN116891**



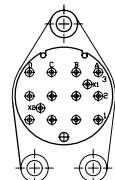
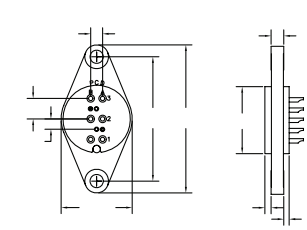
**RSN116800**



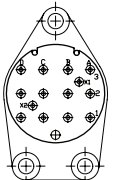
**RSN116810**



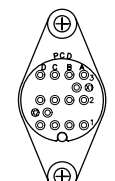
**RSN116825**



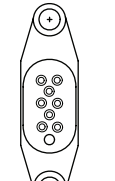
**RSN116820**



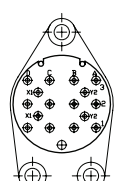
**RSN116890**



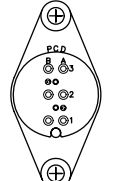
**RSN116800**



**RSN116810**



**RSN116891**



**RSN116825**

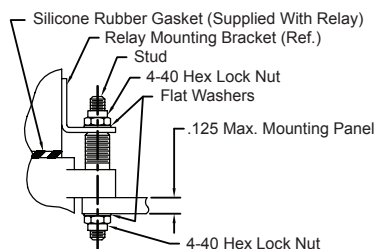
*Solder Termination*

*Socket Configurations*

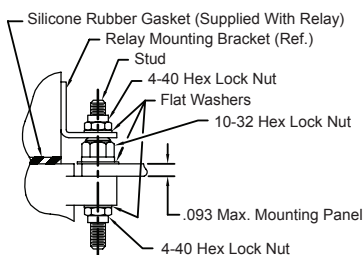
| SOLDER TERMINATION RELAY SOCKETS |                    |                         |                  |
|----------------------------------|--------------------|-------------------------|------------------|
| APCD P/N                         | Ref MIL STD Socket | MIL STD Relay           | Leach Corp Relay |
| RSN116820                        | MS25330            | MS25329 (6 Pole/5 Amp)  | 9226 Series      |
| RSN116890                        | MS25328            | MS25327 (4 Pole/10 Amp) | 9224 Series      |
| RSN116891                        | MS25462            | MS25461 (4 Pole/10 Amp) | 9225 Series      |
| RSN116800                        | MS25326            | MS25325 (4 Pole/5 Amp)  | 9220 Series      |
| RSN116810                        | MS25322            | MS25321 (2 Pole/10 Amp) | 9229 Series      |
| RSN116825                        | MS25324            | MS25323 (2 Pole/10 Amp) | 9227 Series      |

## Relay Socket Mounting Instructions

Top

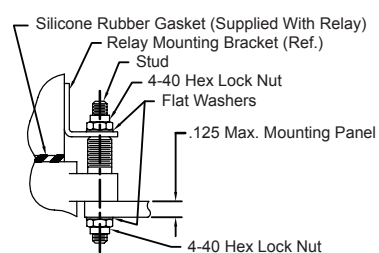


Bottom

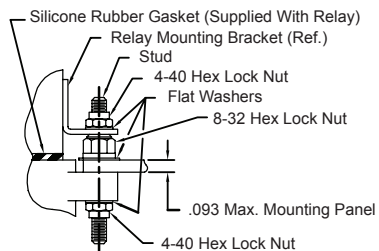


MIL-PRF-12883/40, MIL-PRF-12883/41  
MIL-PRF-12883/47, MIL-PRF-12883/48  
MIL-PRF-12883/54, MIL-PRF-12883/55

Top

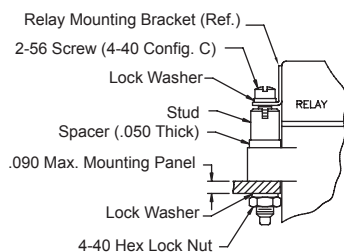


Bottom

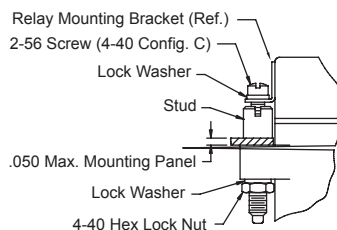


MIL-PRF-12883/44, MIL-PRF-12883/45  
MIL-PRF-12883/46

Top

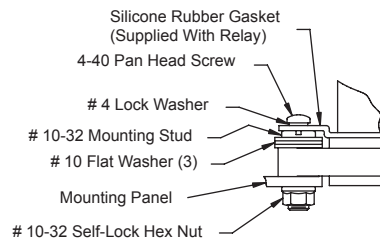


Bottom

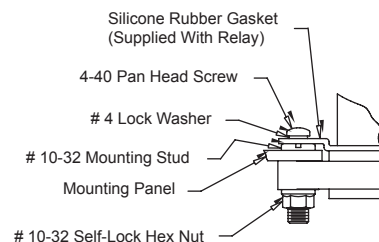


Micro-miniature Relay Sockets

Top

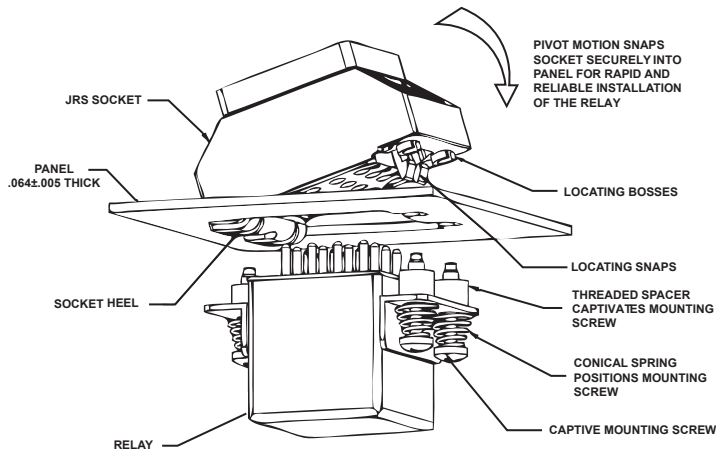


Bottom



Non-Environmental Solder Termination Relay Sockets





Amphenol Pcd's JRS/JRE Quick-Mount Relay Sockets. Snap mount into standard aircraft panel cutouts and eliminate all socket-to-bulkhead mounting hardware, simplifying installation and dramatically reducing weight and installation cost. JRS/JRE Quick-Mount Relay Sockets meet the applicable performance and dimensional requirements of MIL-PRF-12883, are compatible with Mil-Spec approved relays from any manufacturer, and can be used in existing avionic systems with standard slotted panel cutouts.

## Socket Construction & Installation

JRS/JRE sockets maintain the same MIL mounting configurations and construction (molded polyetherimide bodies and silicone rubber sealing grommets) as Amphenol Pcd's traditional relay sockets. A heel and toe snap-in system allows the socket to be mounted to the panel without hardware and held securely in place. The assembled socket and relay meet all shock and vibration requirements.

## Lower Installed Cost

Elimination of loose hardware and the time required to assemble individual hardware components to the sockets results in a reduction of over 45% in socket installation time.

## No Loose Hardware

The combination of snap-in relay-to-panel mounting and pre-assembled relay hardware eliminates all loose hardware from the socket and relay mounting and installation process. The logistical and safety issues related with loose hardware are completely avoided.

## Relay Installation

JRE/JRS Relay Sockets feature externally threaded mounting screws and spacer assemblies which are pre-assembled to the relay. These mounting screws are captured and aligned by a conical spring, and utilized to fasten the relay to the socket. The screws engage internally threaded bushings captured in the socket and once the relay is secured, the socket snap features are no longer under stress.

## Reduced Weight

The elimination of socket mounting hardware and a streamlined polyetherimide body combine to reduce the weight of a Quick-Mount Relay Socket. When compared to Amphenol Pcd standard MIL-PRF-12883 relay sockets provided with traditional mounting hardware, the weight is reduced by 30 to 40%.



**Replaces MIL-PRF-12883/55**  
**Mates with M6106 Relays**

### Operating Range

**Temperature:** -65°C to 125°C

**Insulation Resistance:** 1000 Megaohms Min.

**Dielectric Withstanding Voltage:** 1500 VRMS at Sea Level 500 VRMS at 80,000 ft.

**Vibration:** MIL-STD-202, Method 204 Test Condition G

**Shock:** MIL-STD-202, Method 213 Test Condition C

### Materials

**Socket Body:** Polyetherimide per ASTM-D5205

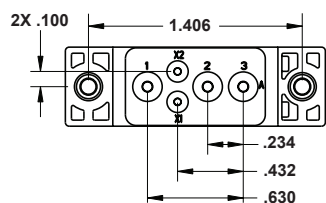
**Grommet:** Silicone Rubber per A-A-59588

**Hardware:** Stainless Steel or Steel w/Cadmium Chromate Finish

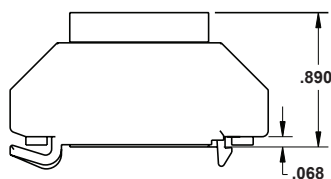
**Contact Retainers:** Stainless Steel

**Socket Contacts:** Copper Alloy, Hard Gold Finish per SAE-AMS-2422

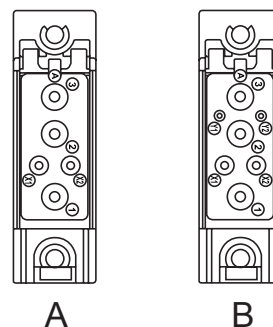
### Dimensions



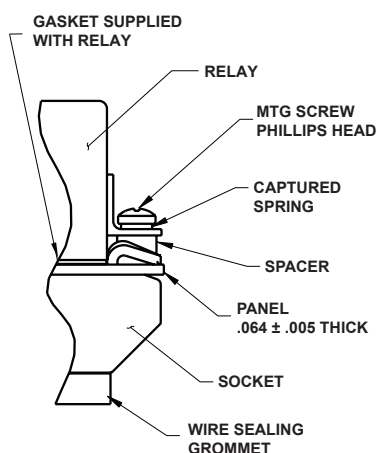
Top View



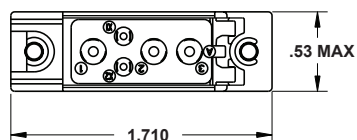
Side View



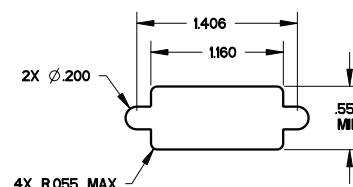
Socket Configurations



Mounting Hardware



Bottom View



Required Mounting Panel Cutout

| QUICK-MOUNT RELAY SOCKET |     |                   |             |         |                   |
|--------------------------|-----|-------------------|-------------|---------|-------------------|
| APCD P/N                 | QTY | Size <sup>1</sup> | Contact P/N | Config. | Mating Relay      |
| JRS500100                | 2   | 16/16             | /92-533     | A       | M6106/13, MS27743 |
|                          | 3   | 12/12             | /92-535     |         |                   |
| JRS500200                | 2   | 16/16             | /92-533     | B       | M6106/13, MS27743 |
|                          | 3   | 12/12             | /92-535     |         |                   |
|                          | 2   | 22/22             | /92-531     |         |                   |

1. Mating End/Wire Barrel

# JRS 2 Pole / 10 Amp / Size 16

Quick-Mount Relay Sockets

## Operating Range

**Temperature:** -65°C to 125°C

**Insulation Resistance:** 1000 Megaohms Min.

**Dielectric Withstanding Voltage:** 1500 VRMS at Sea Level 500 VRMS at 80,000 ft.

**Vibration:** MIL-STD-202, Method 204 Test Condition G

**Shock:** MIL-STD-202, Method 213 Test Condition C

## Materials

**Socket Body:** Polyetherimide per ASTM-D5205

**Grommet:** Silicone Rubber per A-A-59588

**Hardware:** Stainless Steel or Steel w/Cadmium Chromate Finish

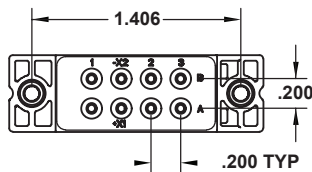
**Contact Retainers:** Stainless Steel

**Socket Contacts:** Copper Alloy, Hard Gold Finish per SAE-AMS-2422

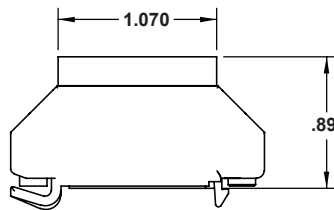


**Replaces MIL-PRF-12883/41**  
**Mates with M83536 Relays**

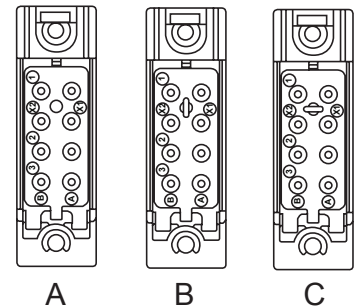
## Dimensions



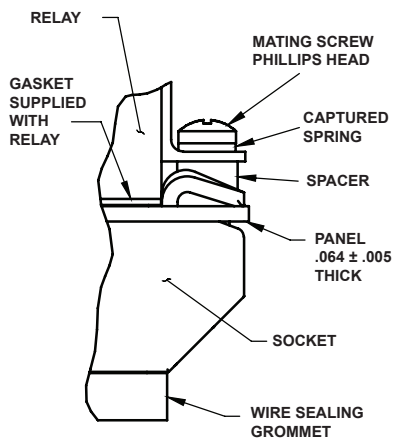
Top View



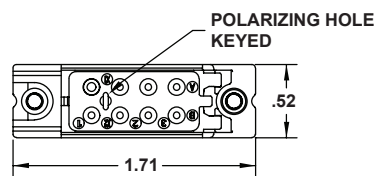
Side View



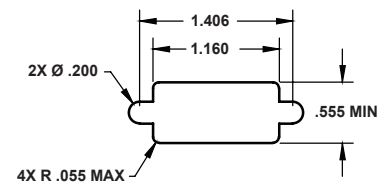
Socket Configurations



Mounting Hardware



Bottom View



Required Mounting  
Panel Cutout

| QUICK-MOUNT RELAY SOCKET |     |                   |             |         |              |
|--------------------------|-----|-------------------|-------------|---------|--------------|
| APCD P/N                 | QTY | Size <sup>1</sup> | Contact P/N | Config. | Mating Relay |
| JRS200100                | 8   | 16/16             | /92-533     | A       | M83536       |
| JRS200200                | 8   | 16/16             | /92-533     | B       | M83536       |
| JRS200300                | 8   | 16/16             | /92-533     | C       | M83536       |

1. Mating End/Wire Barrel



**Replaces MIL-PRF-12883/48**  
**Mates with M6106 & MS27743 Relays**

### Operating Range

**Temperature:** -65°C to 125°C

**Insulation Resistance:** 1000 Megaohms Min.

**Dielectric Withstanding Voltage:** 1500 VRMS at Sea Level 500 VRMS at 80,000 ft.

**Vibration:** MIL-STD-202, Method 204 Test Condition G

**Shock:** MIL-STD-202, Method 213 Test Condition C

### Materials

**Socket Body:** Polyetherimide per ASTM-D5205

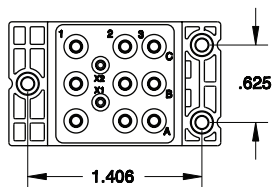
**Grommet:** Silicone Rubber per A-A-59588

**Hardware:** Stainless Steel or Steel w/Cadmium Chromate Finish

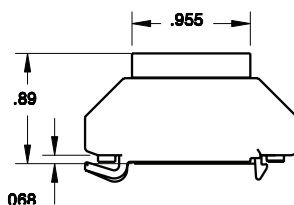
**Contact Retainers:** Stainless Steel

**Socket Contacts:** Copper Alloy, Hard Gold Finish per SAE-AMS-2422

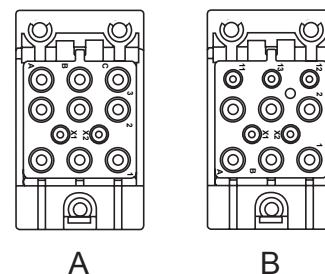
### Dimensions



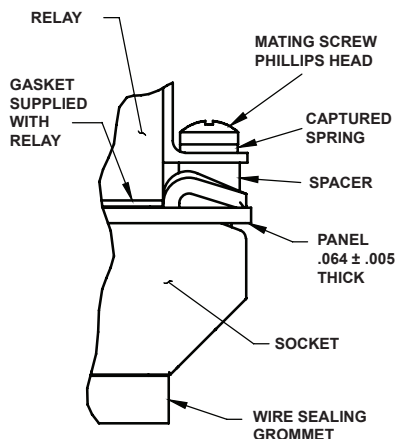
Top View



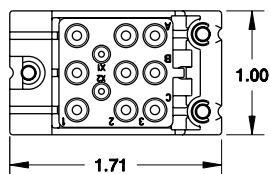
Side View



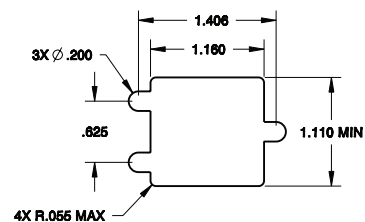
Socket Configurations



Mounting Hardware



Bottom View



Required Mounting  
Panel Cutout

| QUICK-MOUNT RELAY SOCKET |     |                   |             |         |                   |
|--------------------------|-----|-------------------|-------------|---------|-------------------|
| APCD P/N                 | QTY | Size <sup>1</sup> | Contact P/N | Config. | Mating Relay      |
| JRS300100                | 2   | 16/16             | /92-533     | A       | M6106/13, MS27743 |
|                          | 9   | 12/12             | /92-535     |         |                   |
| JRS310100                | 5   | 16/16             | /92-533     | B       | M6106/13, MS27743 |
|                          | 6   | 12/12             | /92-535     |         |                   |

1. Mating End/Wire Barrel

# JRS 4 Pole / 10 Amp / Size 16

Quick-Mount Relay Sockets

## Operating Range

**Temperature:** -65°C to 125°C

**Insulation Resistance:** 1000 Megaohms Min.

**Dielectric Withstanding Voltage:** 1500 VRMS at Sea Level 500 VRMS at 80,000 ft.

**Vibration:** MIL-STD-202, Method 204 Test Condition G

**Shock:** MIL-STD-202, Method 213 Test Condition C

## Materials

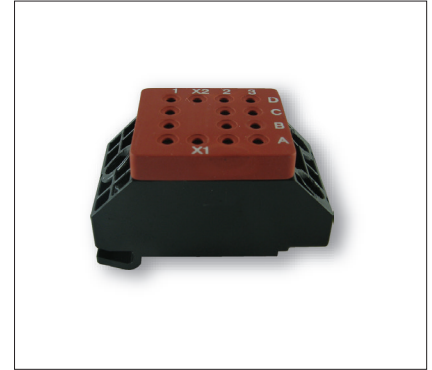
**Socket Body:** Polyetherimide per ASTM-D5205

**Grommet:** Silicone Rubber per A-A-59588

**Hardware:** Stainless Steel or Steel w/Cadmium Chromate Finish

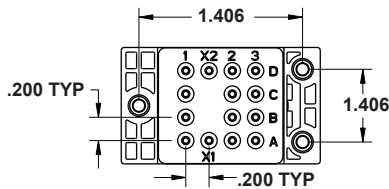
**Contact Retainers:** Stainless Steel

**Socket Contacts:** Copper Alloy, Hard Gold Finish per SAE-AMS-2422

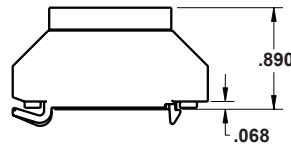


**Replaces MIL-PRF-12883/40**  
**Mates with M83536, 83726 & MS27709**  
**Relays**

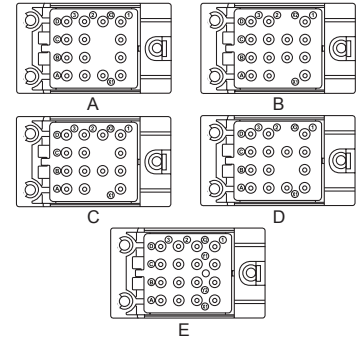
## Dimensions



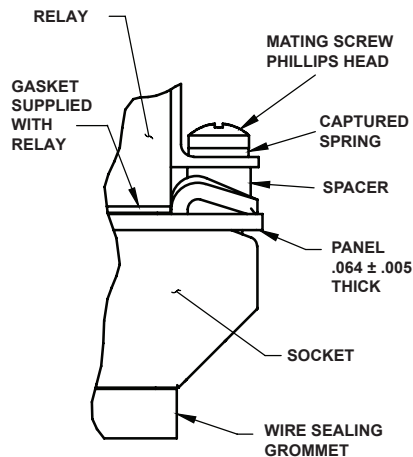
Top View



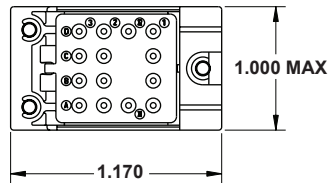
Side View



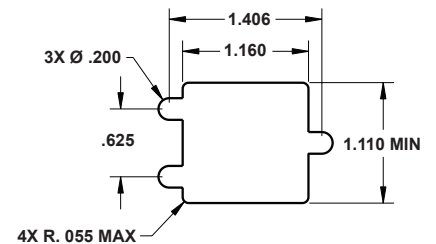
Socket Configurations



Mounting Hardware



Bottom View



Required Mounting  
Panel Cutout

| QUICK-MOUNT RELAY SOCKET |     |                   |             |         |                         |
|--------------------------|-----|-------------------|-------------|---------|-------------------------|
| APCD P/N                 | QTY | Size <sup>1</sup> | Contact P/N | Config. | Mating Relay            |
| JRS400100                | 14  | 16/16             | /92-533     | A       | M83536, M83726, MS27709 |
| JRS400200                | 14  | 16/16             | /92-533     | B       | M83536, M83726, MS27709 |
| JRS400300                | 14  | 16/16             | /92-533     | C       | M83536, M83726, MS27709 |
| JRS400400                | 14  | 16/16             | /92-533     | D       | M83536, M83726, MS27709 |
| JRS400500                | 16  | 16/16             | /92-533     | E       | M83536, M83726, MS27709 |

1. Mating End/Wire Barrel



**Replaces MIL-PRF-12883/47-01, 04;  
/47-01, 05 Mates with M83536,  
M6106 Relays**

### Operating Range

**Temperature:** -65°C to 125°C

**Insulation Resistance:** 1000 Megaohms Min.

**Dielectric Withstanding Voltage:** 1500 VRMS at Sea Level 500 VRMS at 80,000 ft.

**Vibration:** MIL-STD-202, Method 204 Test Condition G

**Shock:** MIL-STD-202, Method 213 Test Condition C

### Materials

**Socket Body:** Polyetherimide per ASTM-D5205

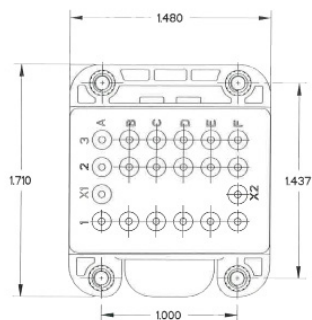
**Grommet:** Silicone Rubber per A-A-59588

**Hardware:** Stainless Steel or Steel w/Cadmium Chromate Finish

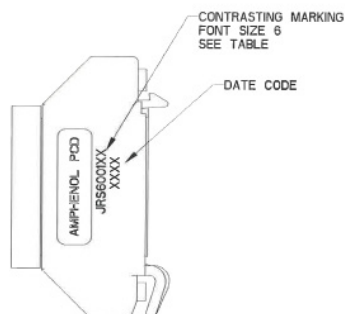
**Contact Retainers:** Stainless Steel

**Socket Contacts:** Copper Alloy, Hard Gold Finish per SAE-AMS-2422

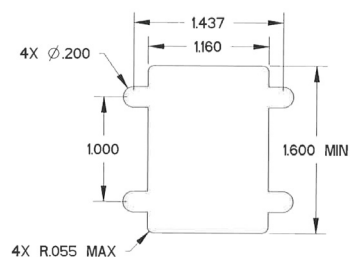
### Dimensions



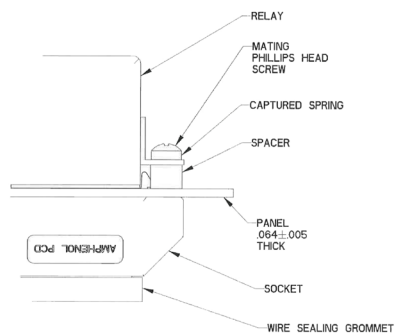
Top View



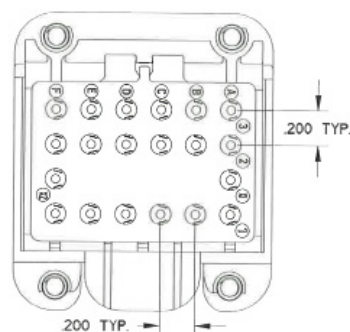
Side View



Recommended Panel Cut-Out



Mounting Hardware



Bottom View

### QUICK-MOUNT RELAY SOCKET

| APCD P/N  | QTY | Size <sup>1</sup> | Contact P/N | Mating Relay |
|-----------|-----|-------------------|-------------|--------------|
| JRS600100 | 20  | 16/16             | /92-533     | M83536,M6106 |
| JRS600200 | 20  | 16/16             | /92-533     | M83536,M6106 |

1. Mating End/Wire Barrel

# JRE 2 Pole / 5 Amp / Size 20

Quick-Mount Relay Sockets

## Operating Range

**Temperature:** -65°C to 125°C

**Insulation Resistance:** 1000 Megaohms Min.

**Dielectric Withstanding Voltage:** 1500 VRMS at Sea Level 500 VRMS at 80,000 ft.

**Vibration:** MIL-STD-202, Method 204 Test Condition G

**Shock:** MIL-STD-202, Method 213 Test Condition C

## Materials

**Socket Body:** Polyetherimide per ASTM-D5205

**Grommet:** Silicone Rubber per A-A-59588

**Hardware:** Stainless Steel or Steel w/Cadmium Chromate Finish

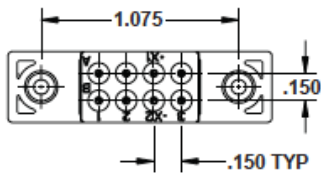
**Contact Retainers:** Stainless Steel

**Socket Contacts:** Copper Alloy, Hard Gold Finish per SAE-AMS-2422

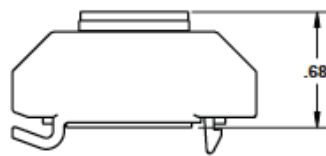


**Replaces MIL-PRF-12883/41**  
**Mates with M6106 & M83536 Relays**

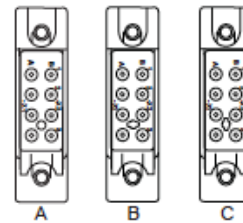
## Dimensions



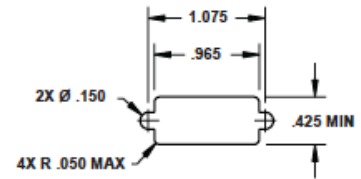
Top View



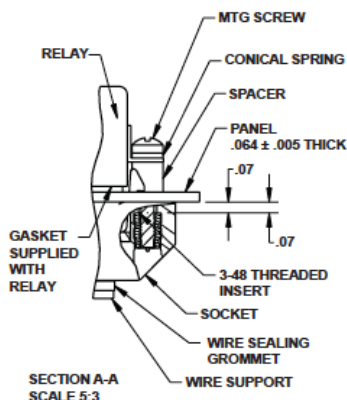
Side View



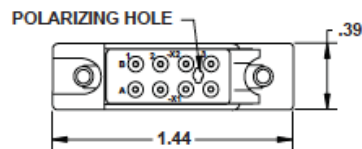
Socket Configurations



Required Mounting  
Panel Cutout



Mounting Hardware



Bottom View

### RELAY SOCKET WEIGHT

| Relay Socket    | Ounces | Grams |
|-----------------|--------|-------|
| Extended Height | 0.02   | 5.81  |

### PART NUMBER INFORMATION

| APCD P/N  | Hardware | Contacts |
|-----------|----------|----------|
| JRE200100 | None     | None     |
| JRE200101 | None     | Yes      |
| JRE200110 | Yes      | None     |
| JRE200111 | Yes      | Yes      |

### QUICK-MOUNT RELAY SOCKET

| APCD P/N  | QTY | Size <sup>1</sup> | Contact P/N | Config. | Mating Relay  |
|-----------|-----|-------------------|-------------|---------|---------------|
| JRE200100 | 8   | 20/20             | /101-553    | A       | M83536, M6106 |
| JRE200200 | 8   | 20/20             | /101-553    | B       | M83536, M6106 |
| JRE200300 | 8   | 20/20             | /101-553    | C       | M83536, M6106 |

1. Mating End/Wire Barrel



**Replaces MIL-PRF-12883/44**  
**Mates with M83536 Relays**

### Operating Range

**Temperature:** -65°C to 125°C

**Insulation Resistance:** 1000 Megaohms Min.

**Dielectric Withstanding Voltage:** 1500 VRMS at Sea Level 500 VRMS at 80,000 ft.

**Vibration:** MIL-STD-202, Method 204 Test Condition G

**Shock:** MIL-STD-202, Method 213 Test Condition C

### Materials

**Socket Body:** Polyetherimide per ASTM-D5205

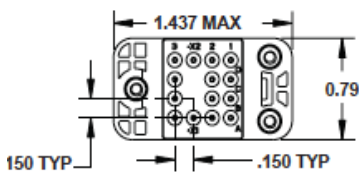
**Grommet:** Silicone Rubber per A-A-59588

**Hardware:** Stainless Steel or Steel w/Cadmium Chromate Finish

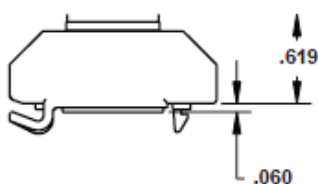
**Contact Retainers:** Stainless Steel

**Socket Contacts:** Copper Alloy, Hard Gold Finish per SAE-AMS-2422

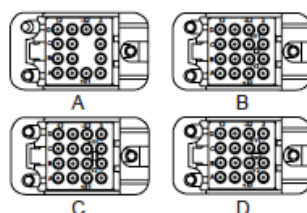
### Dimensions



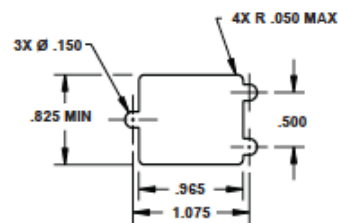
Top View



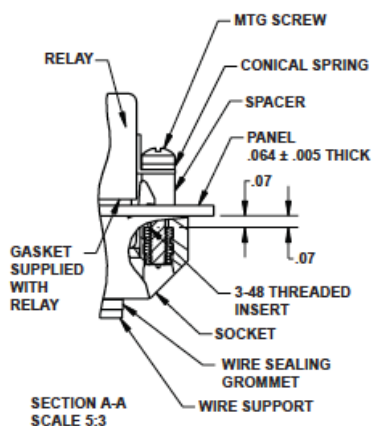
Side View



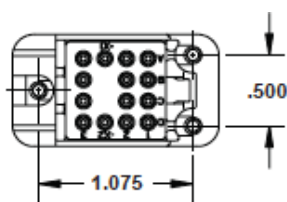
Socket Configurations



Required Mounting  
Panel Cutout



Mounting Hardware



Bottom View

### RELAY SOCKET WEIGHT

| Relay Socket | Ounces | Grams |
|--------------|--------|-------|
| Low Profile  | 0.38   | 10.9  |

### PART NUMBER INFORMATION

| APCD P/N  | Hardware | Contacts |
|-----------|----------|----------|
| JRE400100 | None     | None     |
| JRE400101 | None     | Yes      |
| JRE400110 | Yes      | None     |
| JRE400111 | Yes      | Yes      |

### QUICK-MOUNT RELAY SOCKET

| APCD P/N  | QTY | Size <sup>1</sup> | Contact P/N | Config. | Mating Relay                 |
|-----------|-----|-------------------|-------------|---------|------------------------------|
| JRE400100 | 8   | 20/20             | /101-553    | A       | M83536/2-028, M83726/27, /25 |
| JRE400200 | 16  | 20/20             | /101-553    | B       | M83536/6-025                 |
| JRE400300 | 16  | 20/20             | /101-553    | C       | M83536/22-025                |
| JRE400400 | 16  | 20/20             | /101-553    | D       | M83536/5, M83536/6, M83536/7 |

1. Mating End/Wire Barrel



# RSN Cover 2 Position & RSN Cover 3 Position

Quick-Mount Relay Sockets

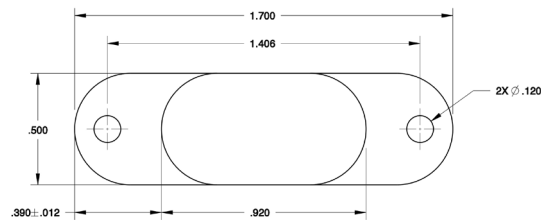
## RSN200000 Materials

**Plate:** Aluminum 6061-T6, Black Anodized

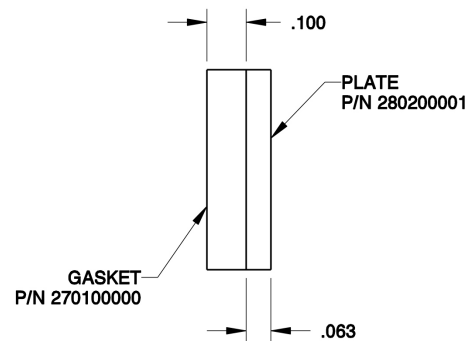
**Gasket:** Silicone Blend Elastomer, 60 Durometer, Shore A.



## Dimensions



Top View



Side View

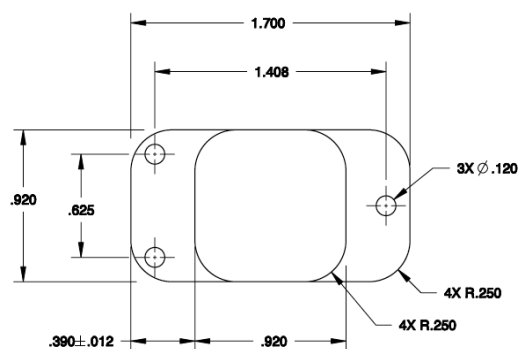
## RSN300000 Materials

**Plate:** Aluminum 6061-T6, Black Anodized

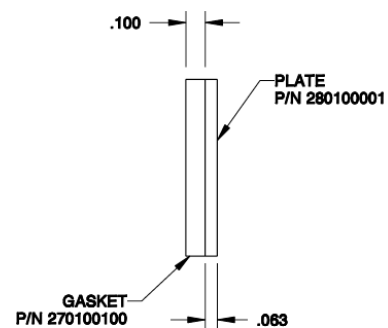
**Gasket:** Silicone Blend Elastomer, 60 Durometer, Shore A.



## Dimensions



Top View



Side View

## **Amphenol Pcd**

Amphenol Pcd, a subsidiary of Amphenol Corporation, is one of the world's leading suppliers of interconnect products for Military, Commercial Aerospace and Industrial applications. Located north of Boston in Beverly, Massachusetts, the company designs and manufactures a wide range of products - System Attachments, Junction Modules, Relay Sockets, Terminal Blocks, Rectangular & Circular connectors, and Cable Assemblies & Adapters.

Each product is made and engineered with the highest quality standards in the industry. With facilities in North America and Asia, Amphenol Pcd products are chosen by hundreds of OEMs around the world, reliant on Amphenol's technical excellence, global network of distributors, and cost-effective solutions for custom systems.

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