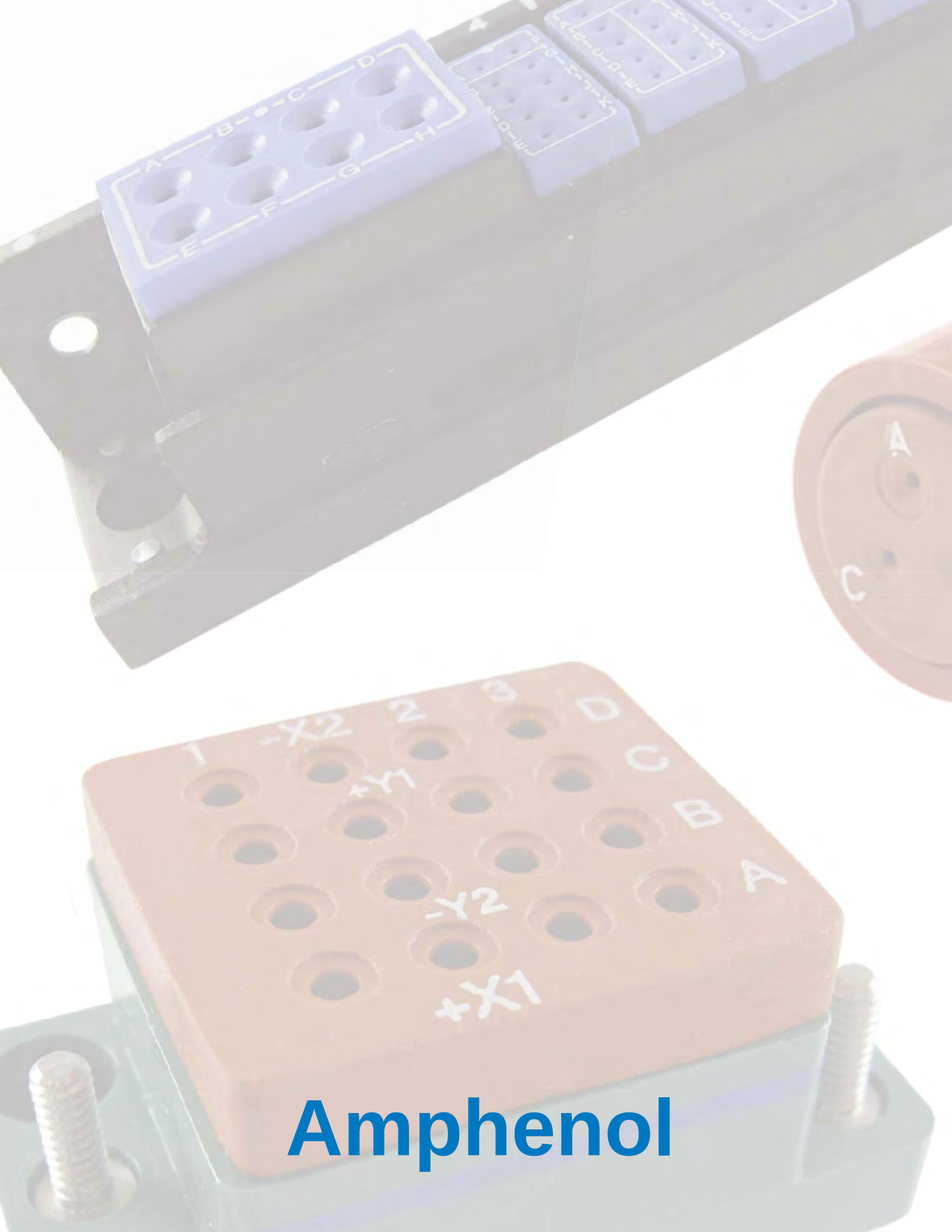


# High Quality Interconnect Products For Military and Aerospace Applications

# Amphenol

## Amphenol Pcd





**Amphenol**

# Amphenol Pcd

## Company Introduction

### Amphenol Pcd

Amphenol Pcd is a Division of Amphenol Corporation, one of the largest manufacturers of interconnect products in the world. Amphenol is the world's leading supplier of these products for military and aerospace applications. Amphenol designs, manufactures and markets electrical, electronic and fiber optic connectors, connector systems, and coaxial and flat-ribbon cable; and maintains extensive manufacturing and engineering facilities in North and South America, Europe, Asia and Australia. Connector products are supplied to thousands of OEMs in approximately 60 countries. Product support is assured through Amphenol's world-wide sales and engineering force, plus a global network of electronic distributors.

Amphenol Pcd is dedicated to providing users in the Military-Aerospace and Industrial markets with a wide variety of high reliability, high performance connectors and rugged system packages. The primary end markets for our products are commercial and military aerospace, military ground vehicles, military electronics and communications, harsh environment industrial applications and shipboard applications. Amphenol Pcd product families are the most extensive available.

### Products

- **Junction Modules**
- **Relay Sockets**
- **Rectangular and Circular Rack & Panel**
- **System Packages**
- **Field Bus Interconnects**
- **Custom Solutions**
- **Specialized Cable Assemblies**
- **Terminal Blocks**
- **Custom System Attachments**
- **Modular Rectangular Connectors**



### Amphenol Pcd Philosophy

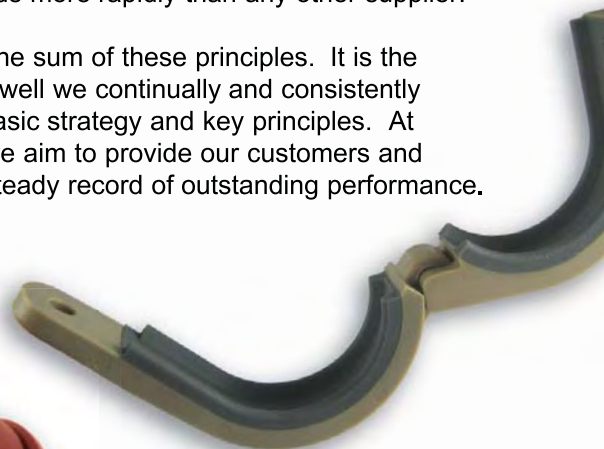
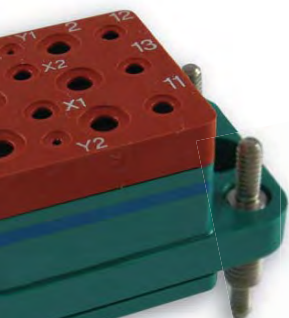
As a basic business philosophy, Amphenol Pcd is dedicated to concentrating on those advanced and challenging market segments that demand an extraordinary level of supplier support and reaction. Our approach to implement this strategy is based on the following key principles:

**FOCUS:** Concentrate all resources on serving a limited number of tightly defined markets, and understanding the needs of those markets.

**INNOVATION:** Provide these markets new, creative solutions in both products and services.

**RESPONSIVENESS:** Identify and respond to the market and product needs more rapidly than any other supplier.

Performance is the sum of these principles. It is the measure of how well we continually and consistently implement our basic strategy and key principles. At Amphenol Pcd we aim to provide our customers and markets with a steady record of outstanding performance.



# Amphenol Pcd

# Amphenol Pcd

## Markets and Applications

### Markets Served and Product Applications

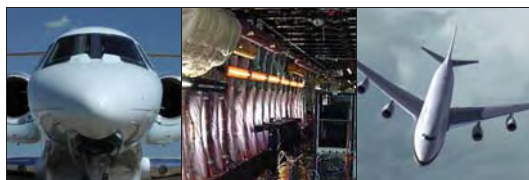
The primary markets served by Amphenol Pcd are Commercial Aerospace, Military Aerospace, Military Ground Vehicles and Military Communication - C4ISR, Rail Mass Transit, and Industrial. These markets have different interconnect and system configuration demands, but are closely linked by an absolute requirement for the very highest levels of reliability and performance, under challenging conditions. Connectors must meet rigid military / aerospace and customer specifications including electrical, mechanical, environmental, chemical resistance, and shock and vibration performance, as well as configuration. Please contact Amphenol Pcd for requirements ranging from standard products to complete customized systems.



#### COMMERCIAL AEROSPACE - AVIONICS

**Market and Applications:** Avionics controls and instrumentation, in-flight entertainment systems, aircraft power distribution, lighting, control systems, galleys and more. All Designed to reduce weight and simplify installation / maintenance procedures.

**Amphenol Pcd Products:** Junction Modules, Relay Sockets, In-Line Junctions, High Performance Clamps, Field Series Connectors, Rectangular Connectors, Modular Rectangular Connectors, In-Line Splices, Electronic Modules, Push Pull Mini Connectors and Contacts.



#### COMMERCIAL AEROSPACE - AIRFRAME

**Market and Applications:** Airframe power distribution, wire bundle and cable management, hydraulic tubing applications, lighting applications, fuel tank applications. All Designed to reduce weight and simplify installation / maintenance procedures, (LEAN Manufacturing).

**Amphenol Pcd Products:** Junction Modules, Relay Sockets, In-Line Junctions, Pipe and Cable Supports, High Performance Clamps, Field Series Connectors, Rectangular Connectors, Modular Rectangular Connectors, In-Line Splices, Electronic Modules, and Contacts.



#### MILITARY AEROSPACE

**Market and Applications:** Avionics controls and instrumentation, aircraft power distribution, lighting, control systems, galleys, pipe and cable management, weapon systems, and more. All Designed to reduce weight and simplify installation / maintenance procedures.

**Amphenol Pcd Products:** Junction Modules, Relay Sockets, In-Line Junctions, Pipe and Cable Supports, High Performance Clamps, Field Series Connectors, SIM Connectors, In-Line Splices, Electronic Modules, Backplane Connectors, and Contacts.



#### MILITARY GROUND VEHICLES

**Market and Applications:** Fighting vehicles, tanks, shelters, armored personnel carriers, artillery. Off-road, heavy earth-moving equipment. Extremely harsh environmental conditions. Heavy shock and vibration, and dust exposure.

**Amphenol Pcd Products:** Push Pull Rectangular Power Connectors, Flex Power Bar Mounting Plates, MIL-DTL-38999 Series III Connectors, Power Bus Bars, Field Series Connectors, SIM Connectors, High Performance Clamps, Power Distribution Systems, Sealed Junctions.



#### MILITARY COMMUNICATION - C4ISR

**Market and Applications:** Combat vests, worn by individual soldiers, containing electronic communications provisions within active webbing embedded in vest and connected to the military communication system.

**Amphenol Pcd Products:** Battlefield Interconnect Assemblies, Mini-Push Pull Connectors, Field Series Connectors, Sealed Miniature Connectors, and SLIM Connectors.



#### INDUSTRIAL & RAIL MASS TRANSIT

**Market and Applications:** Factory Automation, Manufacturing Communications, Earth Moving Equipment, Offshore Oil Platforms, High speed railway, Freight and passenger railway, Subway and Metro, Railway controls and instrumentation, and Railway communications system.

**Amphenol Pcd Products:** Printed Circuit Board Terminal Blocks, Din Rail Mount Terminal Blocks, Interface Modules, Custom I/O Connectors, Field Series Connectors Junction Modules, Relay Sockets, In-Line Junctions, Pipe and Cable Supports, Electronic Modules, Terminal Blocks.

# Amphenol Pcd

## Manufacturing Technology and Capabilities

### Manufacturing Technology and Capabilities

Amphenol Pcd is a leading manufacturer in interconnect products and accessories and has the manufacturing capability along with technical expertise to provide customers with the most innovative and reliable products on the market. Amphenol Pcd has four facilities around the world with engineering and production capability. These facilities are Amphenol Pcd, Amphenol Pcd China, Amphenol Air LB NA, and Amphenol Optimize. These facilities allow Amphenol Pcd to have round the clock engineering support, high volume manufacturing capabilities, and low cost resources. Amphenol Pcd also represents the European Amphenol divisions of Amphenol Socapex, Amphenol Air LB, Amphenol Air LB Germany, and Amphenol Limited in the North and South American market. Amphenol Pcd facilities are AS9100 compliant.



#### Amphenol Pcd - Beverly, Massachusetts, USA

Amphenol Pcd, Beverly is Amphenol Pcd's corporate headquarters and customer service center. The facility has a large production floor and have expertise in manufacturing using Amphenol proprietary overmolding technology. Engineering is also headed from the Beverly facility. All customer inquiries regarding Amphenol Pcd Mil/Aero products should be forwarded to this facility.

##### **Amphenol Pcd**

72 Cherry Hill Drive  
Beverly, MA 01915  
Phone: +1 (978) 624-3400  
[www.amphenolpcd.com](http://www.amphenolpcd.com)



#### Amphenol Pcd China - Shenzhen, China

Amphenol Pcd China is Amphenol Pcd's sister division in China. The facility also has a large production floor and has expertise in product Assembly. The facility is also home to a large number of Amphenol Pcd engineers.

##### **Amphenol Pcd Shenzhen**

3/F Building A4, Section B Song Bai Industrial Park  
East Ming Huan Road Gong Ming Town,  
Bao An District ShenZhen, China 518132  
Phone: +86 755-81738281  
[www.amphenolpcd.com.cn](http://www.amphenolpcd.com.cn)



#### Amphenol Air LB NA - Montreal, Quebec, Canada

Amphenol Air LB NA is a leading producer of aerospace system attachments and pipe and cable supports. The facility also has a large production floor and has expertise in manufacturing using injection molding. Amphenol Air LB NA has their own engineering and customer service department. All customer inquiries regarding Air LB NA products should be forwarded to this facility.

##### **Amphenol Air LB NA**

3335, 1<sup>ere</sup> Rue parc Gerard Leclerc  
St. Hubert QC, J3Y 8Y6, Canada  
Phone: +1 (450) 445-6007  
[www.amphenol-airlb.com](http://www.amphenol-airlb.com) / [www.amphenol-airlb.fr](http://www.amphenol-airlb.fr)



#### Amphenol Optimize - Nogales, Mexico

Amphenol Optimize is the manufacturing and customer service center for Industrial products. The facility also has a large production floor and manufactures most of Amphenol Pcd's Industrial product line. Industrial engineering is located in the Beverly facility. All customer inquiries regarding Amphenol Industrial Products should be forwarded to Amphenol Pcd- Beverly.

##### **Amphenol Optimize, Plant 7**

180 N. Freeport  
Nogales, AZ 85621  
Phone: 978-624-3400  
[www.amphenolpcd.com](http://www.amphenolpcd.com)

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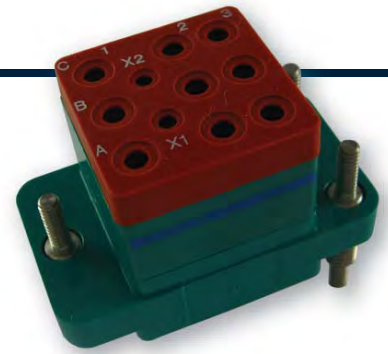
# Amphenol Pcd Relay Sockets

## MIL-PRF-12883

### Amphenol Pcd MIL-PRF-12883 Relay Sockets

Amphenol Pcd offers the industry's broadest line of pluggable relay sockets for commercial and military airborne, ground and shipboard equipment. Sockets are 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  
Relay Sockets**

**Extended Height  
Relay Sockets**

**Microminiature  
Relay Sockets**

**Board Mount  
Relay Sockets**

**Track Mount  
Relay Sockets**

**Solder Termination  
Relay Sockets**

### Key Features and Benefits

#### Socket Selection

Reference tables of QPL listings on Page 5, relays utilized with specific sockets on pages 6-7 and socket recommendations for military and commercial relays on pages 8-9 will assist in and simplify socket selection.

#### Socket Variations

##### 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 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 appropriate catalog pages 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.

##### Contact

Closed entry socket contacts qualified to MIL-C-39029 are utilized 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.



# Military Qualified, QPL Listed

## Relay Socket Part Numbers

| Military Socket P/N | PCD Socket P/N | Page |
|---------------------|----------------|------|
| M12883/40-01        | RSL116079      | 10   |
| M12883/40-02        | RSL116081      | 10   |
| M12883/40-03        | RSL116083      | 10   |
| M12883/40-04        | RSL116085      | 10   |
| M12883/40-05        | RSL116087      | 10   |
| M12883/40-06        | RSL116089      | 10   |
| M12883/40-07        | RSL116051      | 10   |
| M12883/40-08        | RSL116053      | 10   |
| M12883/40-09        | RSL116055      | 10   |
| M12883/40-10        | RSL116057      | 10   |
| M12883/40-11        | RSL116059      | 10   |
| M12883/40-12        | RSL116061      | 10   |
| M12883/40-13        | RSE116661      | 11   |
| M12883/40-14        | RSE116663      | 11   |
| M12883/40-15        | RSE116665      | 11   |
| M12883/40-16        | RSE116667      | 11   |
| M12883/40-17        | RSE116669      | 11   |
| M12883/40-18        | RSE116671      | 11   |
| M12883/40-19        | RSE116673      | 11   |
| M12883/40-20        | RSE116675      | 11   |
| M12883/40-21        | RSE116677      | 11   |
| M12883/40-22        | RSE116679      | 11   |
| M12883/40-23        | RSE116681      | 11   |
| M12883/40-24        | RSE116683      | 11   |
| M12883/41-01        | RSL116091      | 12   |
| M12883/41-02        | RSL116093      | 12   |
| M12883/41-03        | RSL116095      | 12   |
| M12883/41-04        | RSL116097      | 12   |
| M12883/41-05        | RSL116099      | 12   |
| M12883/41-06        | RSL116063      | 12   |
| M12883/41-07        | RSL116065      | 12   |
| M12883/41-08        | RSL116067      | 12   |
| M12883/41-09        | RSL116069      | 12   |
| M12883/41-10        | RSL116071      | 12   |
| M12883/41-11        | RSE116685      | 13   |
| M12883/41-12        | RSE116687      | 13   |
| M12883/41-13        | RSE116689      | 13   |
| M12883/41-14        | RSE116691      | 13   |
| M12883/41-15        | RSE116693      | 13   |
| M12883/41-16        | RSE116695      | 13   |
| M12883/41-17        | RSE116697      | 13   |
| M12883/41-18        | RSE116699      | 13   |
| M12883/41-19        | RSE116701      | 13   |

| Military Socket P/N | PCD Socket P/N | Page |
|---------------------|----------------|------|
| M12883/41-20        | RSE116703      | 13   |
| M12883/44-01        | RSE120151      | 14   |
| M12883/44-02        | RSE120153      | 14   |
| M12883/44-03        | RSE120155      | 14   |
| M12883/44-04        | RSE120157      | 14   |
| M12883/45-01        | RSE120159      | 15   |
| M12883/45-02        | RSE120161      | 15   |
| M12883/45-03        | RSE120163      | 15   |
| M12883/45-04        | RSE120165      | 16   |
| M12883/45-05        | RSE120167      | 16   |
| M12883/45-06        | RSE120169      | 16   |
| M12883/46-01        | RSE116747      | 17   |
| M12883/46-02        | RSE116749      | 17   |
| M12883/46-03        | RSE116751      | 17   |
| M12883/46-04        | RSE116753      | 17   |
| M12883/47-01        | RSE116755      | 18   |
| M12883/47-02        | RSE116757      | 18   |
| M12883/47-04        | RSE116761      | 18   |
| M12883/47-05        | RSE116763      | 18   |
| M12883/47-07        | RSL116101      | 18   |
| M12883/47-08        | RSL116103      | 18   |
| M12883/47-10        | RSL116073      | 18   |
| M12883/47-11        | RSL116075      | 18   |
| M12883/48-01        | RSE112061      | 19   |
| M12883/48-02        | RSE112063      | 19   |
| M12883/48-03        | RSL112105      | 19   |
| M12883/48-04        | RSL112101      | 19   |
| M12883/48-05        | RSE112065      | 19   |
| M12883/48-06        | RSE112067      | 19   |
| M12883/48-07        | RSL112107      | 19   |
| M12883/48-08        | RSL112103      | 19   |
| M12883/52-001       | RSE116175      | 20   |
| M12883/52-002       | RSE116185      | 20   |
| M12883/52-003       | RSE116195      | 20   |
| M12883/53-001       | RST145005      | 20   |
| M12883/54-01        | RSE116627      | 21   |
| M12883/54-02        | RSE116631      | 21   |
| M12883/54-03        | RSE116629      | 21   |
| M12883/54-04        | RSE116635      | 21   |
| M12883/55-01        | RSE112035      | 22   |
| M12883/55-02        | RSE112036      | 22   |
| M12883/55-03        | RSE112044      | 22   |

### Stainless Steel Hardware

To specify Relay Sockets with Stainless Steel hardware, the suffix "S" is added to both the military and Aphenol Pcd part Numbers. For example, M12883/40-01 becomes M12883/40-01S, and the Amphenol Pcd equivalent RSL116079 becomes RSL116079-S.

# Relay Socket Cross Reference Chart

## Relay to Relay Socket

| Military Relay Part Number                                                                                 | Military Socket Part Number                                                                                                  | APCD Socket Part Number                                                                              | Relay Type      | Page  |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------|-------|
| 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 | 10-11 |
| 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 | 10-11 |
| 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 | 10-11 |
| M83536/21-006, -014, -022, -030<br>M83536/22-006, -014, -022, -031                                         | M12883/46-01                                                                                                                 | RSE116747                                                                                            | 3 Pole / 10 Amp | 17    |
| 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 | 18    |
| 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 | 18    |
| MS27742-2                                                                                                  | M12883/54-04                                                                                                                 | RSE116635                                                                                            | 3 Pole / 25 Amp | 21    |
| 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 | 19    |
| 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 | 19    |
| 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 | 12-13 |
| 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 | 10-11 |

\* Applies to all plug-in dash numbered relays of these documents

# Relay Socket Cross Reference Chart

## Relay to Relay Socket

| Military Relay Part Number                                                | Military Socket Part Number                                                                                                  | APCD Socket Part Number                                                                              | Relay Type                    | Page  |
|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------|-------|
| M6106/12-002                                                              | M12883/54-03                                                                                                                 | RSE116629                                                                                            | 3 Pole / 25 Amp               | 21    |
| M6106/13-002,-008,-011,-013,-015                                          | M12883/54-01                                                                                                                 | RSE116627                                                                                            | 3 Pole / 25 Amp               | 21    |
| M6106/13-004                                                              | M12883/54-02                                                                                                                 | RSE116631                                                                                            | 3 Pole / 25 Amp               | 21    |
| M6106/19-004,-007,-012,-017,-022                                          | M12883/55-01, M12883/55-02                                                                                                   | RSE112035, RSE112036                                                                                 | 1 Pole / 25 Amp               | 22    |
| M6106/20-002                                                              | M12883/55-03                                                                                                                 | RSE112044                                                                                            | 1 Pole / 25 Amp               | 22    |
| M6106/38-002                                                              | M12883/45-04                                                                                                                 | RSE120165                                                                                            | 2 Pole / 5 Amp                | 15-16 |
| M6106/40-002                                                              | M12883/46-02                                                                                                                 | RSE116749                                                                                            | 3 Pole / 5 Amp                | 17    |
| M83536/1-006,-015,-024,-033<br>M83536/2-006,-015,-024,-035                | M12883/45-01                                                                                                                 | RSE120159                                                                                            | 2 Pole / 5 Amp                | 15-16 |
| M83536/2-028, M83726/24, /25                                              | M12883/52-001                                                                                                                | RSE116175                                                                                            | Track Mount<br>2 Pole / 5 Amp | 20    |
| M83536/5-006,-014, -022, -030<br>M83536/6-006, -015, -022, -032           | M12883/44-01                                                                                                                 | RSE120151                                                                                            | 4 Pole / 5 Amp                | 14    |
| M83536/6-025                                                              | M12883/52-002                                                                                                                | RSE116185                                                                                            | Track Mount<br>4 Pole / 5 Amp | 20    |
| M83536/7-022                                                              | M12883/44-02                                                                                                                 | RSE120153                                                                                            | 4 Pole / 5 Amp                | 14    |
| M83536/9, -006, -015, -024, -035<br>M83536/10-006,-015,-024,<br>-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               | 12-13 |
| 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               | 12-13 |
| 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               | 12-13 |

\* Applies to all plug-in dash numbered relays of these documents

## Relay Sockets



Mates with M83536, M6106,  
M27709, M83726 Relays

# MIL-PRF-12883/40

## Extended Height RSL 4 Pole/10 Amp

### 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

**Module Body:**

Polyetherimide per ASTM-D5205

**Grommet:**

Silicone Rubber per A-A-59588

**Hardware:**

Stainless Steel or Steel w/

Cadmium Chromate Finish

**Contact Retainers:**

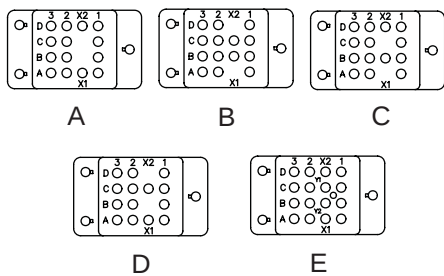
Stainless Steel

**Socket Contacts:**

Stainless Steel, Hard Gold Plated in

Accordance with SAE-AMS-2422

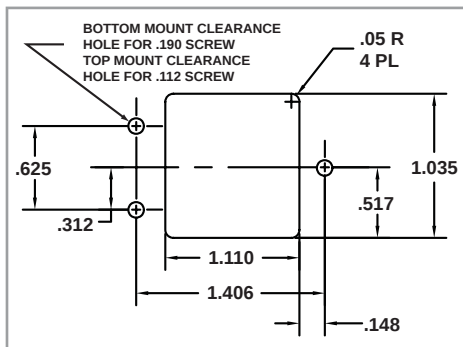
### Socket Configurations



### Relay Socket Weight

| Relay Socket    | Pounds | Grams |
|-----------------|--------|-------|
| Extended Height | .132   | 60    |

### Recommended Mounting Panel Cutout



### Extended Height Relay Sockets

| MIL P/N<br>M12883 | APCD<br>P/N | Mounting<br>Stud | QTY | Size <sup>1</sup> | Contact Config.<br>P/N | Mating Relay                                                                          |
|-------------------|-------------|------------------|-----|-------------------|------------------------|---------------------------------------------------------------------------------------|
| /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 |
| /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>M83726/1,2,3,4,28,29,31,31, 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>M83726/1,2,3,4,28,29,31,31, 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>M83726/1,2,3,4,28,29,31,31, 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                |

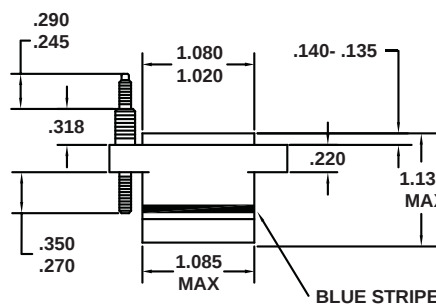
<sup>1</sup>Mating End / Wire Barrel

\*Applies to all plug-in type relays of these documents

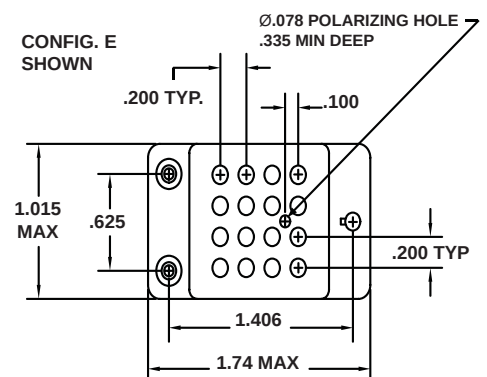
Mounting instructions can be found on page 26

### Relay Socket Dimensions

#### Side View



#### Top View



# MIL-PRF-12883/40

## Low Profile RSE 4 Pole/10 Amp

### 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

#### Module 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

### Low Profile Relay Sockets

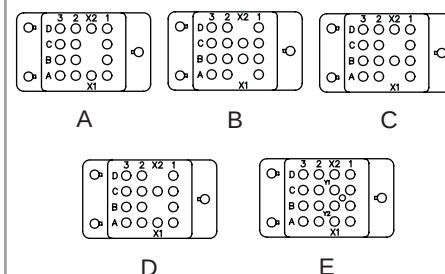
| MIL P/N<br>M12883 | APCD<br>P/N | Mounting<br>Stud | QTY | Size <sup>1</sup> | Contact<br>P/N | Config. | Mating Relay                                                                          |
|-------------------|-------------|------------------|-----|-------------------|----------------|---------|---------------------------------------------------------------------------------------|
| /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 |
| /40-14            | RSE116663   | Loose            | 14  | 16/16             | /92-533        | B       | M83536/17-002, 005                                                                    |
| /40-15            | RSE116665   | Loose            | 14  | 16/16             | /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             | /92-594        | A       | M83536/15-022, M83536/16-006,-014,-031,-034<br>M83726/1,2,3,4,28,29,30,31*, M27709-02 |
| /40-18            | RSE116671   | Loose            | 16  | 16/16             | /92-533        | E       | M83836/18-002,-005,-012<br>M83536/19-002,-005,-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>M83726/1,2,3,4,28,29,30,31*, M27709-02 |
| /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>M83726/1,2,3,4,28,29,30,31*, M27709-02 |
| /40-24            | RSE116683   | Fixed            | 16  | 16/16             | /92-533        | E       | M83836/18-002,-005,-012<br>M83536/19-002,-005,-008,-012, M83536/20-002                |

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

\*Applies to all plug-in type relays of these documents

Mounting instructions can be found on page 26

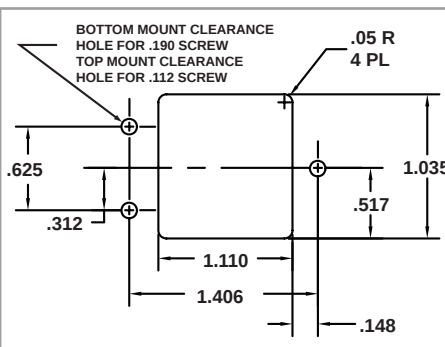
### Socket Configurations



### Relay Socket Weight

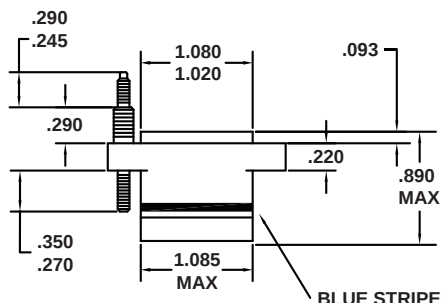
| Relay Socket | Pounds | Grams |
|--------------|--------|-------|
| Low Profile  | .100   | 45    |

### Recommended Mounting Panel Cutout

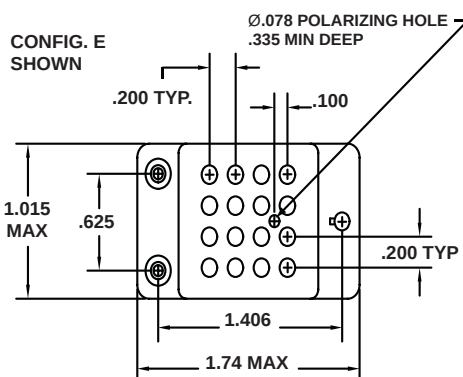


### Relay Socket Dimensions

#### Side View

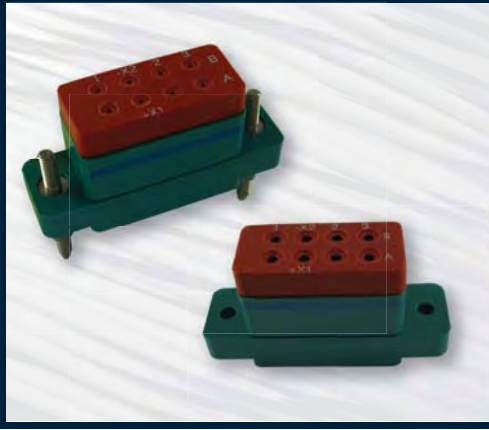


#### Top View



Amphenol Pcd

### Relay Sockets



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

**Module Body:**

Polyetherimide per ASTM-D5205

**Grommet:**

Silicone Rubber per A-A-59588

**Hardware:**

Stainless Steel or Steel w/

Cadmium Chromate Finish

**Contact Retainers:**

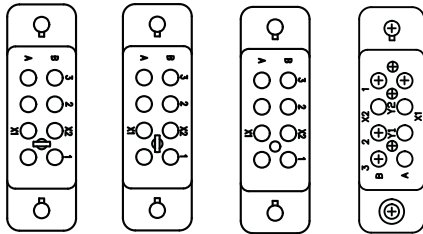
Stainless Steel

**Socket Contacts:**

Stainless Steel, Hard Gold Plated in

Accordance with SAE-AMS-2422

### Socket Configurations

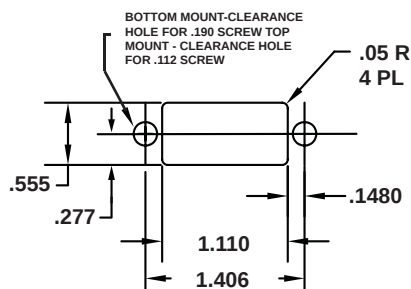


A B C D

### Relay Socket Weight

| Relay Socket    | Pounds | Grams |
|-----------------|--------|-------|
| Extended Height | .073   | 33    |

### Recommended Mounting Panel Cutout



### Extended Height Relay Sockets

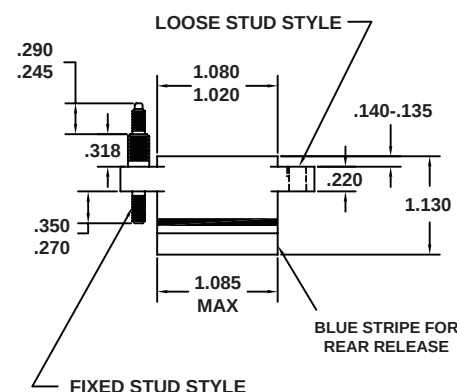
| MIL P/N<br>M12883 | APCD<br>P/N | Mounting<br>Stud | QTY    | Size*          | Contact<br>P/N     | Config. | Mating Relay                                                     |
|-------------------|-------------|------------------|--------|----------------|--------------------|---------|------------------------------------------------------------------|
| /41-01            | RSL116091   | Loose            | 8      | 16/16          | /5-116             | C       | M83536/9-006, 015, 024, 035<br>M83536/10-006, 015, 024, 034, 038 |
| /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          | /5-117             | C       | M83536/9-006, 015, 024, 035<br>M83536/10-006, 015, 024, 034, 038 |
| /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      | 16/16          | /5-116             | A       | Leach Corp JA-D4E & J                                            |
| /41-09            | RSL116069   | Fixed            | 8      | 16/20          | /5-117             | C       | M83536/9-006, 015, 024, 035<br>M83536/10-006, 015, 024, 034, 038 |
| /41-05            | RSL116099   | Loose            | 8<br>2 | 16/16<br>22/22 | /5-116<br>/101-553 | D       | M83536/13-002,-005,-008,-012<br>M83536/13-002,-005,-008,-012     |
| /41-10            | RSL116071   | Fixed            | 8<br>2 | 16/16<br>22/22 | /5-116<br>/101-553 | D       | M83536/13-002,-005,-008,-012<br>M83536/13-002,-005,-008,-012     |

\*Mating End / Wire Barrel

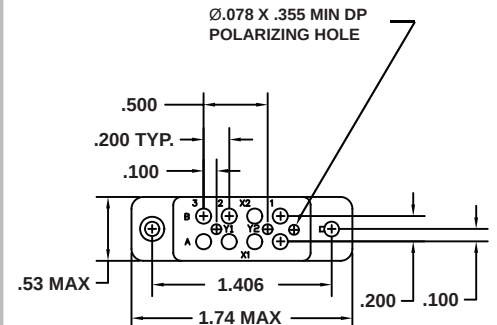
Mounting instructions can be found on page 25

### Relay Socket Dimensions

#### Side View



#### Top View



## Low Profile RSE 2 Pole/10 Amp

### 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-213, Method 213

Test Condition C

### Materials

#### Module Body:

Polytherimide 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 Plated in

Accordance with SAE-AMS 2422



Mates with M83536, M6106 Relays

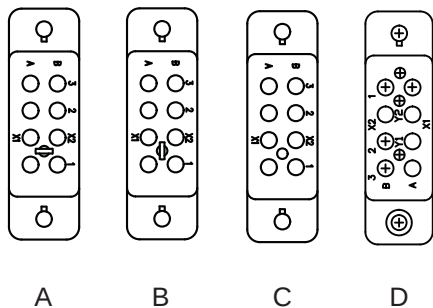
### Low Profile Relay Sockets

| MIL P/N<br>M12883 | APCD<br>P/N | Mounting<br>Stud | QTY | Size* | Contact<br>P/N | Config. | Mating Relay                                                     |
|-------------------|-------------|------------------|-----|-------|----------------|---------|------------------------------------------------------------------|
| /40-11            | RSE116685   | Loose            | 8   | 16/16 | /92-533        | C       | M83536/9-006, 015, 024, 035<br>M83536/10-006, 015, 024, 034, 038 |
| /40-12            | RSE116687   | Loose            | 8   | 16/16 | /92-533        | B       | M83536/11-002, 004, 007                                          |
| /40-13            | RSE116691   | Loose            | 8   | 16/16 | /92-533        | A       | Leach Corp JA-D4E & J                                            |
| /40-14            | RSE116693   | Loose            | 8   | 16/20 | /92-534        | C       | M83536/9-006, 015, 024, 035<br>M83536/10-006, 015, 024, 034, 038 |
| /40-16            | RSE116695   | Fixed            | 8   | 16/16 | /92-533        | C       | M83536/9-006, 015, 024, 035<br>M83536/10-006, 015, 024, 034, 038 |
| /40-17            | RSE116697   | Fixed            | 8   | 16/16 | /92-533        | B       | M83536/11-002, 004, 007                                          |
| /40-18            | RSE116699   | Fixed            | 8   | 16/16 | /92-533        | A       | Leach Corp JA-D4E & J                                            |
| /40-19            | RSE116701   | Fixed            | 8   | 16/20 | /92-534        | C       | M83536/9-006, 015, 024, 035<br>M83536/10-006, 015, 024, 034, 038 |
| /41-15            | RSE116693   | Loose            | 8   | 16/16 | /92-553        | D       | M83536/13-002,-005,-008,-012<br>M83536/13-002,-005,-008,-012     |
|                   |             |                  | 2   | 22/22 | /92-551        |         |                                                                  |
| /41-20            | RSE116703   | 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        |         |                                                                  |

\*Mating End / Wire Barrel

Mounting instructions can be found on page 26

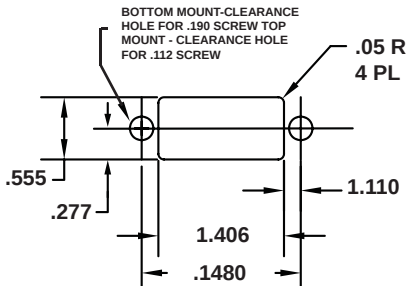
### Socket Configurations



### Relay Socket Weight

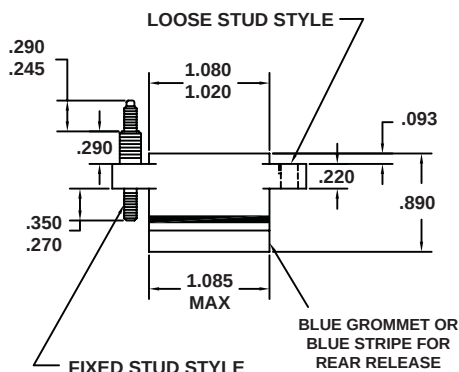
| Relay Socket | Pounds | Grams |
|--------------|--------|-------|
| Low Profile  | .055   | 25    |

### Recommended Mounting Panel Cutout

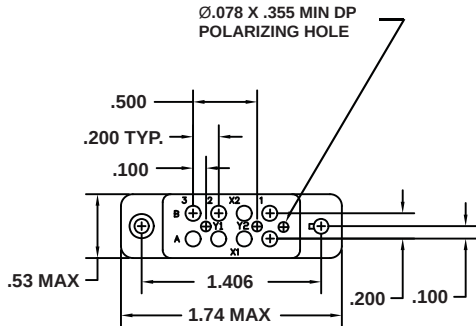


### Relay Socket Dimensions

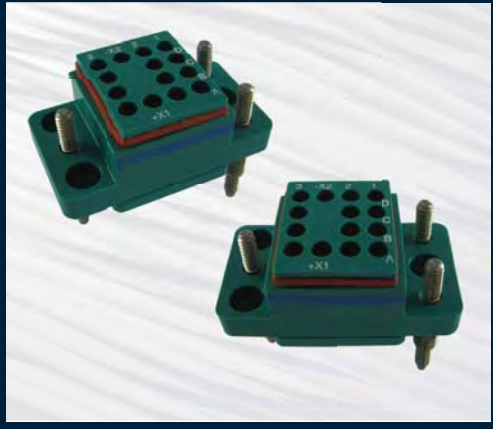
#### Side View



#### Top View



## Relay Sockets



## Mates with M6106, M83536 Relays

# MIL-PRF-12883/44

# RSE 4 Pole/5 Amp

## 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

### Module Body:

## Polyetherimide per ASTM-D5205

**Grommet:**

## Silicone Rubber per A-A-59588

### Hardware:

Stainless Steel or Steel w/

## Cadmium Chromate Finish

### Contact Retainers:

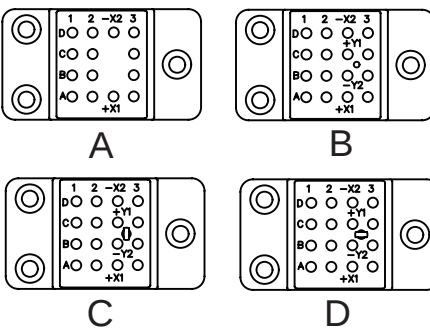
## Stainless Steel

### Socket Contacts:

Copper Alloy, Hard Gold Plated in

Accordance with SAE-AMS 2422

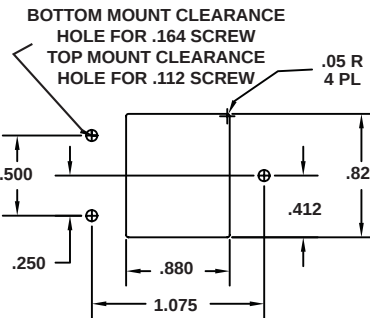
## Socket Configurations



## Relay Socket Weight

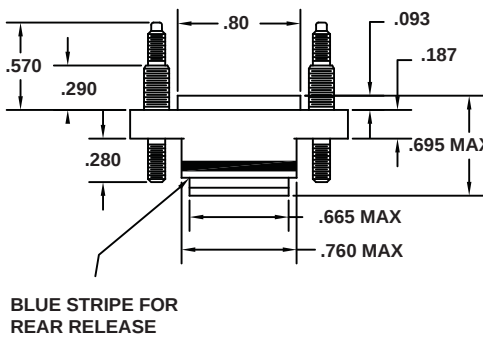
| Relay Socket | Pounds | Grams |
|--------------|--------|-------|
| Low Profile  | .055   | 25    |

## Recommended Mounting Panel Cutout

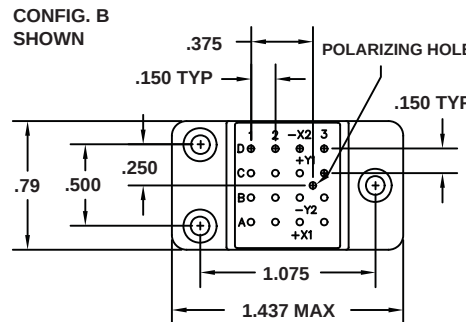


## Relay Socket Dimensions

### Side View



### Top View



# MIL-PRF-12883/45

## RSE 2 Pole/5 Amp

### 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:**

Copper Alloy, Hard Gold Plated in

Accordance with SAE-AMS 2422

## Relay Sockets



Mates with M6106, M83536 Relays

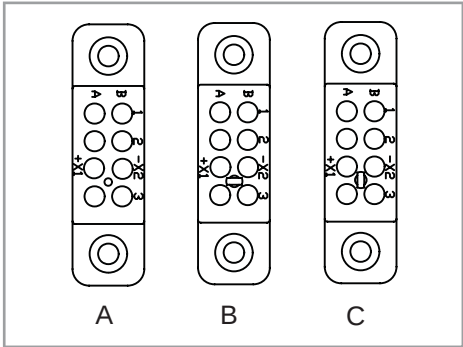
## Low Profile Relay Sockets

| MIL P/N<br>M12883 | APCD<br>P/N | QTY | Size <sup>1</sup> | Contact<br>P/N | Config. | Mating Relay                                                     |
|-------------------|-------------|-----|-------------------|----------------|---------|------------------------------------------------------------------|
| /45-01            | RSE120159   | 8   | 20/20             | /101-553       | A       | M83536/1-006, -015, -024, -033<br>M83536/2-006, -015, -024, -035 |
| /45-02            | RSE120161   | 8   | 20/20             | /101-553       | B       |                                                                  |
| /45-03            | RSE120163   | 8   | 20/20             | /101-553       | C       |                                                                  |

\*Mating End / Wire Barrel

Mounting instructions can be found on page 26

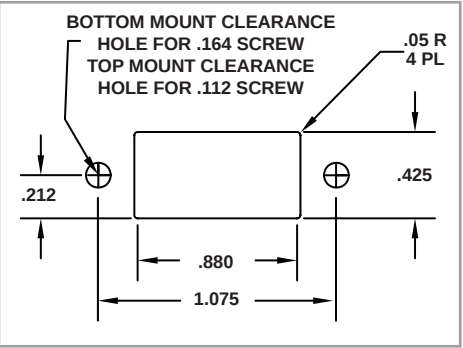
## Socket Configurations



## Relay Socket Weight

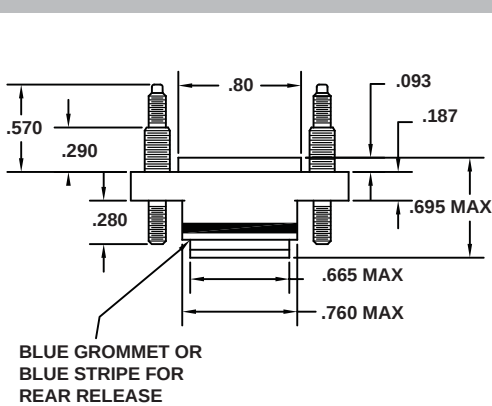
| Relay Socket | Pounds | Grams |
|--------------|--------|-------|
| Low Profile  | .033   | 15    |

## Recommended Mounting Panel Cutout

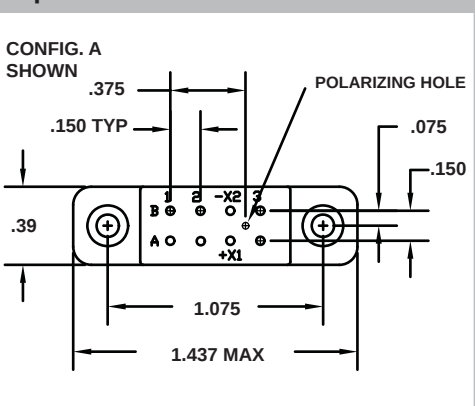


## Relay Socket Dimensions

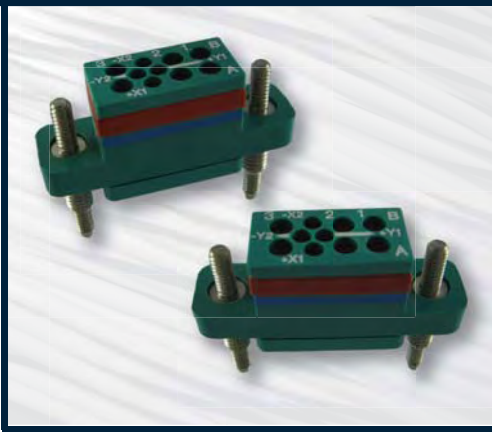
### Side View



### Top View



## Relay Sockets



Mates with M6106/38 Relays

# MIL-PRF-12883/45

## RSE 2 Pole/5 Amp

### 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:**

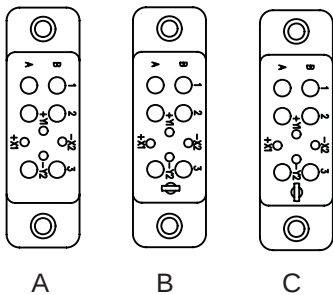
Stainless Steel

**Socket Contacts:**

Copper Alloy, Hard Gold Plated in

Accordance with with SAE-AMS 2422

## Socket Configurations



## Low Profile Relay Sockets

| MIL P/N<br>M12883 | APCD<br>P/N | QTY | Size <sup>1</sup> | Contact<br>P/N | Config. | Mating Relay |
|-------------------|-------------|-----|-------------------|----------------|---------|--------------|
| /45-04            | RSE120165   | 6   | 20/20             | /101-553       | A       | M6106/38-002 |
|                   |             | 4   | 22/22             | /101-552       |         |              |
| /45-05            | RSE120167   | 6   | 20/20             | /101-553       | B       |              |
|                   |             | 4   | 22/22             | /101-552       |         |              |
| /45-06            | RSE120169   | 6   | 20/20             | /101-553       | C       |              |
|                   |             | 4   | 22/22             | /101-552       |         |              |

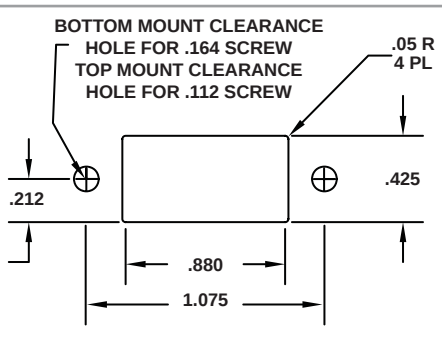
<sup>1</sup>Mating End / Wire Barrel

Mounting instructions can be found on page 26

## Relay Socket Weight

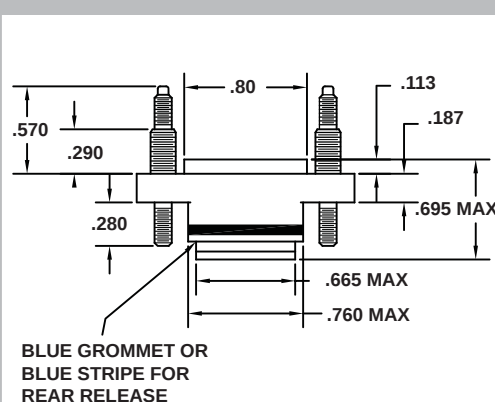
| Relay Socket | Pounds | Grams |
|--------------|--------|-------|
| Low Profile  | .033   | 15    |

## Recommended Mounting Panel Cutout



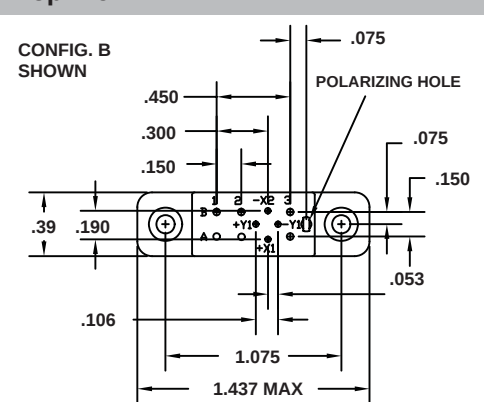
## Relay Socket Dimensions

### Side View



BLUE GROMMET OR  
BLUE STRIPE FOR  
REAR RELEASE

### Top View



# MIL-PRF-12883/46

## RSE 3 Pole/10 Amp

### 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:

Copper Alloy, Hard Gold Plated in

Accordance with SAE-AMS 2422

## Relay Sockets



Mates with M83536, M6106 Relays

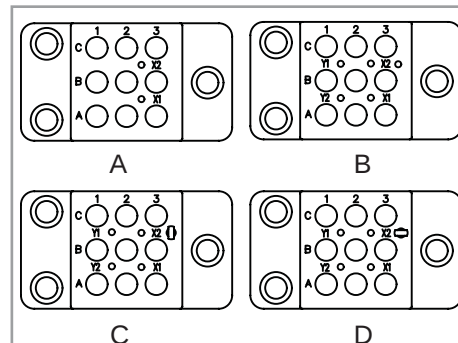
## Low Profile Relay Sockets

| MIL P/N<br>M12883 | APCD<br>P/N | QTY | Size <sup>1</sup> | Contact<br>P/N | Config. | Mating Relay                                                 |
|-------------------|-------------|-----|-------------------|----------------|---------|--------------------------------------------------------------|
| /46-01            | RSE116747   | 9   | 16/16             | /101-554       | A       | M83536/21-006,-014,-022,-030<br>M83536/22-006,-014,-022,-030 |
|                   |             | 2   | 20/20             | /101-553       |         |                                                              |
| /46-02            | RSE116749   | 9   | 16/16             | /101-554       | B       | M6106/40-002                                                 |
|                   |             | 2   | 20/20             | /101-553       |         |                                                              |
| /46-03            | RSE116751   | 9   | 16/16             | /101-554       | C       |                                                              |
|                   |             | 2   | 20/20             | /101-553       |         |                                                              |
| /46-04            | RSE116753   | 9   | 16/16             | /101-554       | D       |                                                              |
|                   |             | 2   | 20/20             | /101-553       |         |                                                              |

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

Mounting instructions can be found on page 26

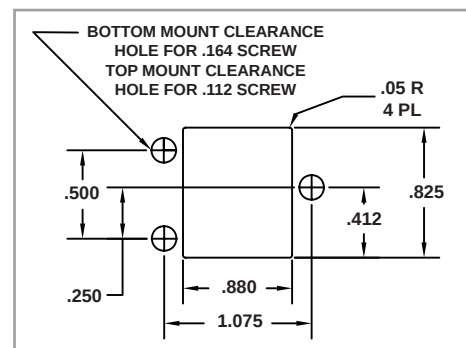
## Socket Configurations



## Relay Socket Weight

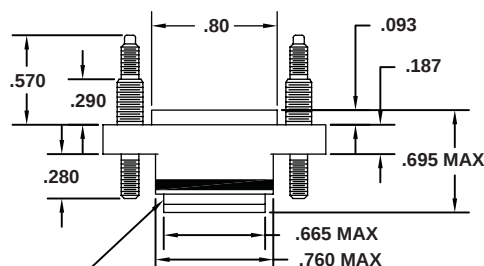
| Relay Socket | Pounds | Grams |
|--------------|--------|-------|
| Low Profile  | .055   | 25    |

## Recommended Mounting Panel Cutout



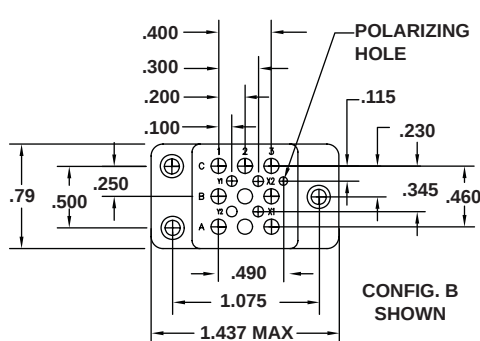
## Relay Socket Dimensions

### Side View



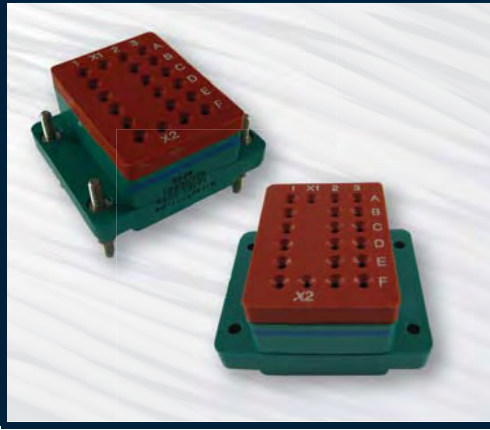
BLUE GROMMET OR  
BLUE STRIPE FOR  
REAR RELEASE

### Top View



Amphenol Pcd

## Relay Sockets



Mates with M83536, M83536 Relays

# MIL-PRF-12883/47

## RSE/RSL 6 Pole/10 Amp

### 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:

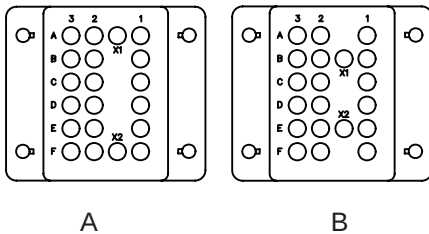
Stainless Steel

#### Socket Contacts:

Copper Alloy, Hard Gold Plated in

Accordance with SAE-AMS 2422

## Socket Configurations



## Low Profile Relay Sockets

| MIL P/N<br>M12883 | APCD<br>P/N | Mounting<br>Stud | QTY | Size <sup>1</sup> | Contact<br>P/N | Config. | Mating Relay                 |
|-------------------|-------------|------------------|-----|-------------------|----------------|---------|------------------------------|
| /47-01            | RSE116755   | Loose            | 20  | 16/16             | /92-533        | A       | M83536/25-002, M83536/26-002 |
| /47-02            | RSE116757   | Loose            | 20  | 16/16             | /92-533        | B       | M83536/27-002                |
| /47-04            | RSE116761   | Fixed            | 20  | 16/16             | /92-533        | A       | M83536/25-002, M83536/26-002 |
| /47-05            | RSE116763   | Fixed            | 20  | 16/16             | /92-533        | B       | M83536/27-002                |

## Extended Height Relay Sockets

| MIL P/N<br>M12883 | APCD<br>P/N | Mounting<br>Stud | QTY | Size <sup>1</sup> | Contact<br>P/N | Config. | Mating Relay                 |
|-------------------|-------------|------------------|-----|-------------------|----------------|---------|------------------------------|
| /47-07            | RSL116101   | Loose            | 20  | 16/16             | /5-116         | A       | M83536/25-002, M83536/26-002 |
| /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                |

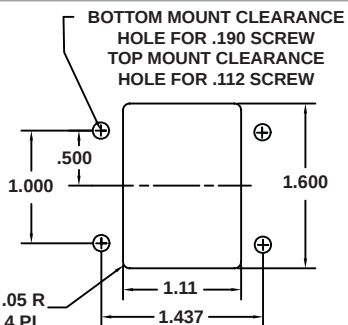
<sup>1</sup>Mating End / Wire Barrel

Mounting instructions can be found on page 26

## Relay Socket Weight

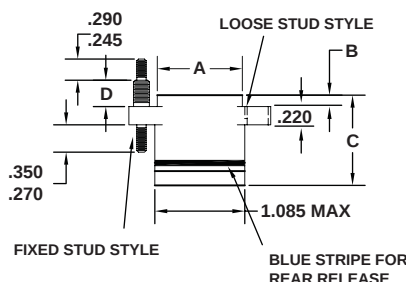
| Relay Socket    | Pounds | Grams |
|-----------------|--------|-------|
| Extended Height | .176   | 80    |
| Low Profile     | .144   | 65    |

## Recommended Mounting Panel Cutout



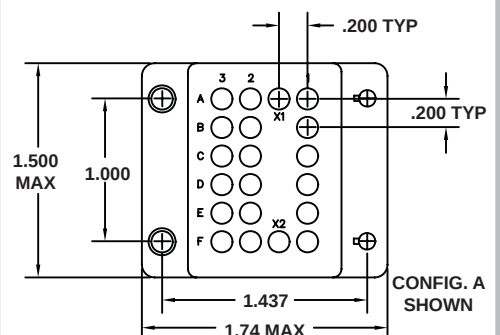
## Relay Socket Dimensions

### Side View



| Relay Socket    | A    | B         | C Max | D    |
|-----------------|------|-----------|-------|------|
| Extended Height | 1.03 | .140-.135 | 1.25  | .318 |
| Low Profile     | 1.08 | .093      | .890  | .290 |

### Top View



# MIL-PRF-12883/48

## RSE/RSL 3 Pole/25 Amp

### 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 Plated in

Accordance with SAE-AMS 2422

## Relay Sockets



Mates with MS27743 Relays

### Low Profile Relay Sockets

| MIL P/N<br>M12883 | APCD<br>P/N | Mounting<br>Stud | QTY | Size <sup>1</sup> | Contact<br>P/N | Config. | Mating Relay              |
|-------------------|-------------|------------------|-----|-------------------|----------------|---------|---------------------------|
| /48-01            | RSE112061   | Loose            | 2   | 16/16             | /92-533        | A       | MS27743-06, -12, -18, -24 |
|                   |             |                  | 9   | 12/12             | /92-535        |         |                           |
| /48-02            | RSE112063   | Fixed            | 2   | 16/16             | /92-533        | A       | MS27743-06, -12, -18, -24 |
|                   |             |                  | 9   | 12/12             | /92-535        |         |                           |
| /48-05            | RSE112065   | Loose            | 2   | 16/16             | /92-533        | B       | MS27743-09, -15, -21, -27 |
|                   |             |                  | 9   | 12/12             | /92-535        |         |                           |
| /48-06            | RSE112067   | Fixed            | 2   | 16/16             | /92-533        | B       | MS27743-09, -15, -21, -27 |
|                   |             |                  | 9   | 12/12             | /92-535        |         |                           |

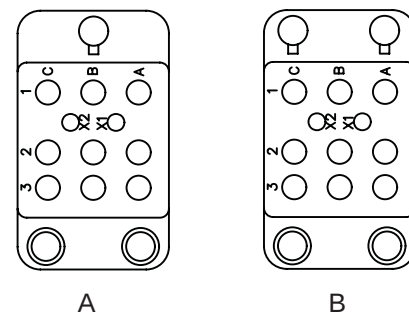
### Extended Height Relay Sockets

| MIL P/N<br>M12883 | APCD<br>P/N | Mounting<br>Stud | QTY | Size <sup>1</sup> | Contact<br>P/N | Config. | Mating Relay              |
|-------------------|-------------|------------------|-----|-------------------|----------------|---------|---------------------------|
| /48-03            | RSL112105   | Loose            | 2   | 16/16             | /5-116         | A       | MS27743-06, -12, -18, -24 |
|                   |             |                  | 9   | 12/12             | /5-118         |         |                           |
| /48-04            | RSL112101   | Fixed            | 2   | 16/16             | /5-116         | A       | MS27743-06, -12, -18, -24 |
|                   |             |                  | 9   | 12/12             | /5-118         |         |                           |
| /48-07            | RSL112107   | Loose            | 2   | 16/16             | /5-116         | B       | MS27743-09, -15, -21, -27 |
|                   |             |                  | 9   | 12/12             | /5-118         |         |                           |
| /48-08            | RSL112103   | Fixed            | 2   | 16/16             | /5-116         | B       | MS27743-09, -15, -21, -27 |
|                   |             |                  | 9   | 12/12             | /5-118         |         |                           |

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

Mounting instructions can be found on page 25

### Socket Configurations



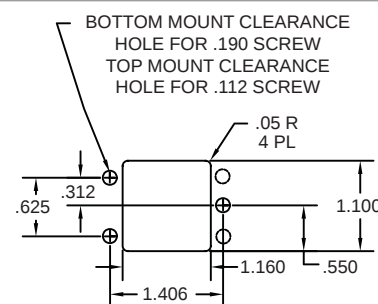
A

B

### Relay Socket Weight

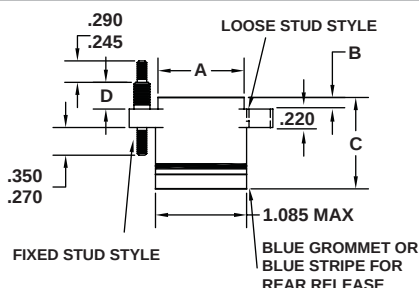
| Relay Socket    | Pounds | Grams |
|-----------------|--------|-------|
| Extended Height | .129   | 55    |
| Low Profile     | .109   | 49    |

### Recommended Mounting Panel Cutout



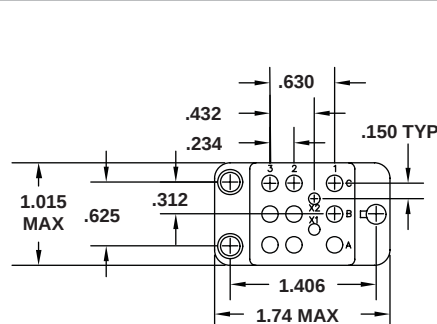
### Relay Socket Dimensions

#### Side View



| Relay Socket    | A    | B         | C Max | D    |
|-----------------|------|-----------|-------|------|
| Extended Height | 1.03 | .140-.135 | 1.25  | .318 |
| Low Profile     | 1.00 | .093      | .890  | .290 |

#### Top View



Amphenol Pcd



# MIL-PRF-12883/54

## RSE 3 Pole/25 Amp

### 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

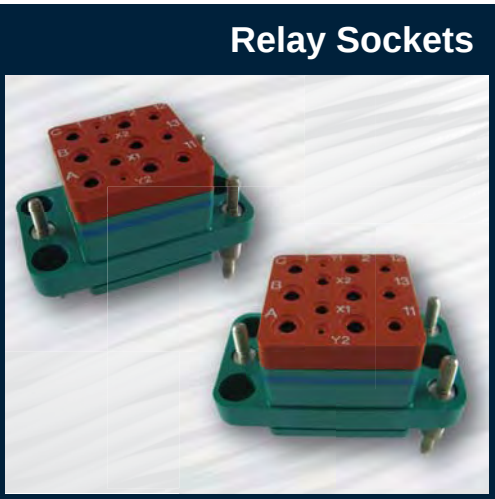
**Socket Body:**  
Polyetherimide per ASTM-D5205

**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 Plated in  
Accordance with SAE-AMS 2422



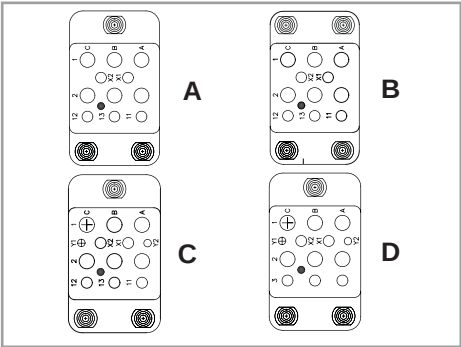
Mates with M6106/12, /13 & MS27742 Relays

### Low Profile Relay Sockets

| MIL P/N<br>M12883 | APCD<br>P/N | Mounting<br>Stud | QTY | Size* | Contact<br>P/N | Config. | Mating Relay                     |
|-------------------|-------------|------------------|-----|-------|----------------|---------|----------------------------------|
| /54-01            | RSE116627   | Fixed            | 5   | 16/16 | /92-533        | A       | M6106/13-002,-008,-011,-013,-015 |
|                   |             |                  | 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            | 2   | 20/20 | /92-532        | C       | M6106/12-002                     |
|                   |             |                  | 5   | 16/16 | /92-533        |         |                                  |
| /54-04            | RSE116635   | Fixed            | 2   | 20/20 | /92-532        | D       | MS27742-2                        |
|                   |             |                  | 2   | 16/16 | /92-535        |         |                                  |
|                   |             |                  | 9   | 12/12 | /92-535        |         |                                  |

Mounting instructions can be found on page 26

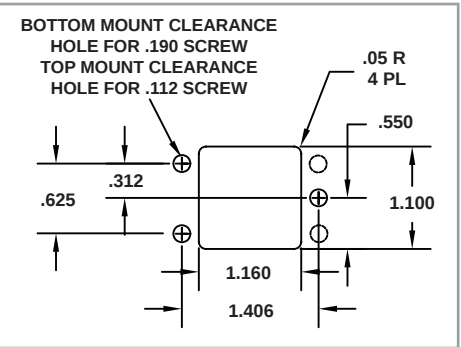
### Socket Configurations



### Relay Socket Weight

| Relay Socket | Pounds | Grams |
|--------------|--------|-------|
| RSE116627    | .132   | 60    |
| RSE116631    | .132   | 60    |
| RSE116629    | .154   | 70    |
| RSE116635    | .154   | 70    |

### Recommended Mounting Panel Cutout



### Relay Socket Dimensions

#### Side View

#### Top View

CONFIG. A SHOWN

## Relay Sockets



Mates with M6106/19, /20 Relays

# MIL-PRF-12883/55

## RSE 1 Pole/25 Amp

### Operating Range

#### Temperature:

-65°C to 125°C

#### Insulation Resistance:

1000 Megohms 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

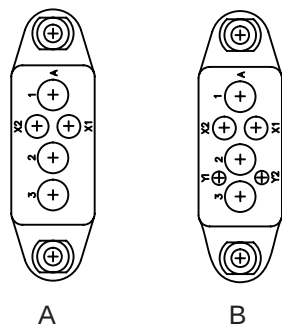
#### Contact Retainers:

Stainless Steel

#### Socket Contacts:

Copper Alloy, Hard Gold Plated in  
Accordance with SAE-AMS 2422

## Socket Configurations



## Low Profile Relay Sockets

| MIL P/N<br>M12883 | APCD<br>P/N | Mounting<br>Stud | QTY | Size <sup>1</sup> | Contact<br>P/N | Config. | Mating Relay                            |
|-------------------|-------------|------------------|-----|-------------------|----------------|---------|-----------------------------------------|
| /55-01            | RSE112035   | Fixed            | 2   | 16/16             | /92-533        | A       | M6106/19-004, -007,<br>-012, -017, -022 |
|                   |             |                  | 3   | 12/12             | /92-535        |         |                                         |
| /55-02            | RSE112036   | Fixed            | 2   | 16/16             | /92-533        | A       | M6106/19-004, -007,<br>-012, -017, -022 |
|                   |             |                  | 3   | 12/12             | /92-535        |         |                                         |
| /55-03            | RSE112044   | Fixed            | 2   | 22/22             | /92-531        | B       | M6106/20-002                            |
|                   |             |                  | 3   | 12/12             | /92-535        |         |                                         |

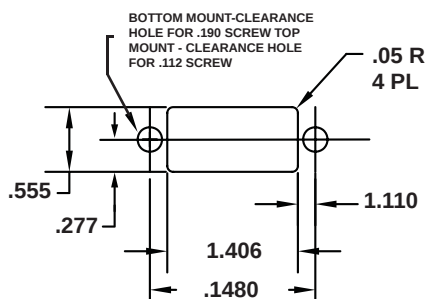
<sup>1</sup>Mating End / Wire Barrel

Mounting instructions can be found on page 26

## Relay Socket Weight

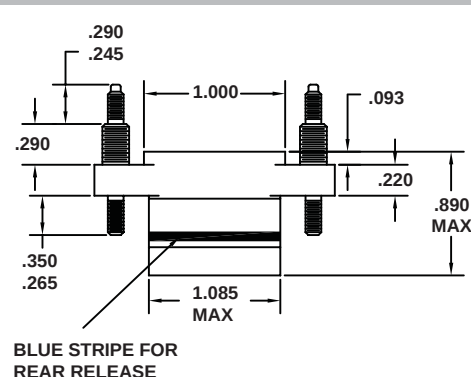
| Relay Socket | Pounds | Grams |
|--------------|--------|-------|
| Low Profile  | .073   | 33    |

## Recommended Mounting Panel Cutout

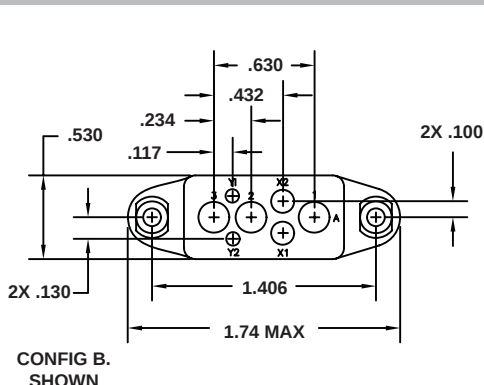


## Relay Socket Dimensions

### Side View



### Top View



# Microminiature Relay Sockets

## RSE 2 & 3 Pole, 2 Amp

### 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

#### Module 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 Plated in

Accordance with SAE-AMS 2422



Mates with M39016 & M5757 Relays

### Relay Sockets for 2 Pole/ 2 Amp Microminiature Relays

| APCD P/N  | QTY | Size  | Contact P/N | Config. | Mating Relay                      |
|-----------|-----|-------|-------------|---------|-----------------------------------|
| RSE120020 | 8   | 22/20 | CNS109900   | A       | MIL-R-5757/10-022,-044            |
| RSE120074 | 8   | 22/20 | CNS109900   | B       | MIL-R-39016/55-001,-013,-025,-037 |

### Relay Sockets for 3 Pole/ 2 Amp Microminiature Relays

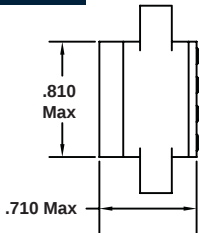
| APCD P/N  | QTY | Size  | Contact P/N | Config. | Mating Relay                 |
|-----------|-----|-------|-------------|---------|------------------------------|
| RSE120070 | 14  | 22/20 | CNS109900   | C       | MIL-R-39016/39-002,-008,-014 |

Mounting instructions can be found on page 26

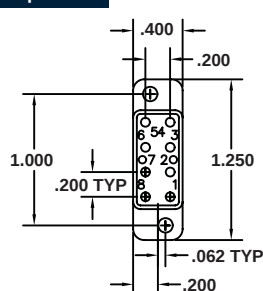
### Relay Socket Dimensions

#### RSE120020

##### Side View

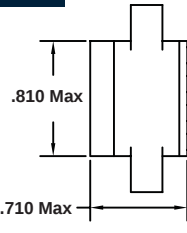


##### Top View

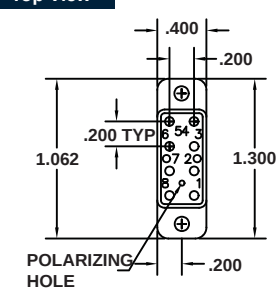


#### RSE120074

##### Side View

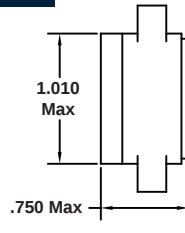


##### Top View

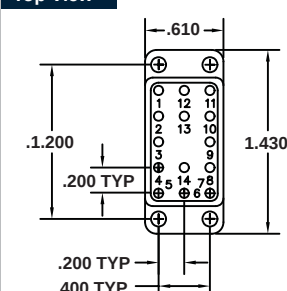


#### RSE120070

##### Side View



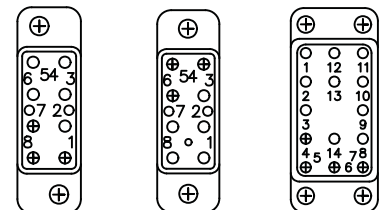
##### Top View



### Product Description

Microminiature Relay Sockets are designed to mate with M39016 & M5757 Microminiature Relays. Amphenol Pcd supplies three separate relay sockets for customers using Microminiature Relays.

### Socket Configurations



A

B

C

### Relay Socket Weight

| Relay Socket | Pounds | Grams |
|--------------|--------|-------|
| RSE120020    | .024   | 11    |
| RSE120074    | .024   | 11    |
| RSN120070    | .044   | 20    |

**Amphenol Pcd**

## Relay Sockets



Mates with MIL-R-6106 & MS27743 Relays

# Board Mount MIL-PRF-12883

## RSN 2,4 Pole/10 Amp, 3 Pole/25 Amp

### 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

#### Module Body:

Polyetherimide per ASTM-D5205

#### Hardware:

Stainless Steel or Steel w/

Cadmium Chromate Finish

#### Contact Retainers:

Stainless Steel

#### Socket Contacts:

Copper Alloy, Hard Gold Plated in

Accordance with SAE-AMS 2422

## Product Description

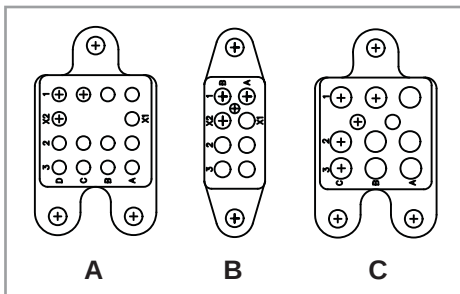
Product Line of pluggable, PC board mount relay sockets allows separable mounting of relays direct to boards in airborne or ground applications. Polyetherimide body and scalloped mounting flange reduce weight and improve strength. Mounting hardware supplied with connector secures firmly to board and eliminates stress on solder contacts. Gold-plated contacts and solder-dipped contact tails are available. Meets all applicable specifications.

## Board Mount Relay Sockets

| APCD P/N  | QTY | Size <sup>1</sup> | Contact P/N | Config. | Mating Relay        |
|-----------|-----|-------------------|-------------|---------|---------------------|
| RSN116140 | 14  | 16/16             | /92-533     | A       | MIL-R-6106, MS27400 |
| RSN116130 | 8   | 16/16             | /92-533     | B       | MIL-R-6106, MS27401 |
| RSN112010 | 9   | 12/12             | /92-535     | C       | MIL-R-6106, MS27743 |
|           | 2   | 16/16             | /92-533     |         |                     |

Mounting instructions can be found on page 26

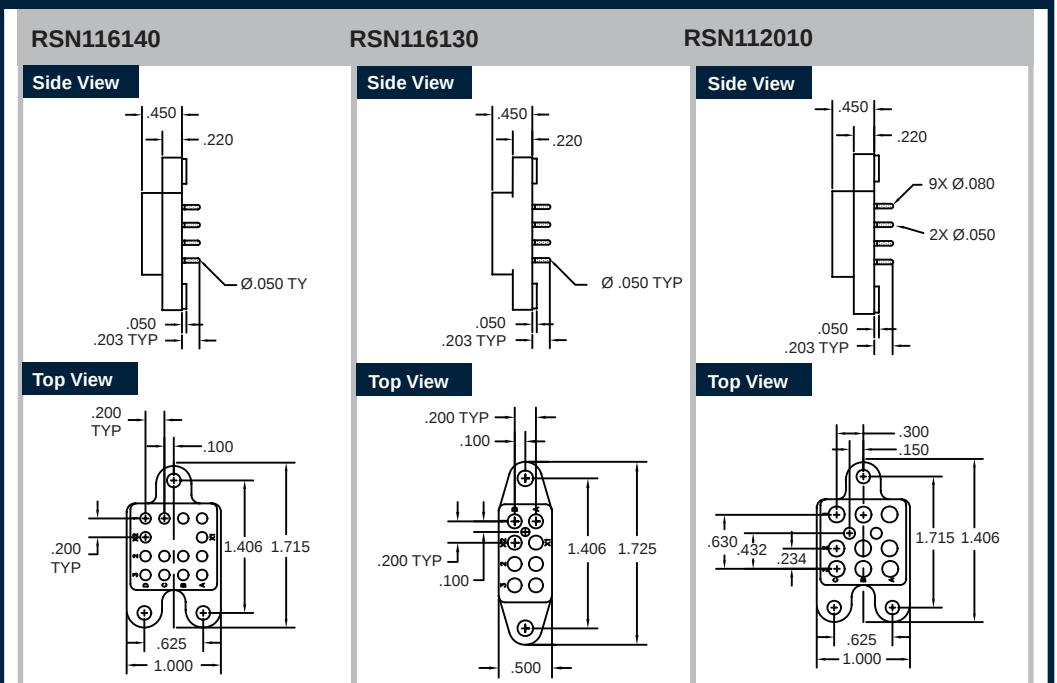
## Socket Configurations



## Relay Socket Weight

| Relay Socket | Pounds | Grams |
|--------------|--------|-------|
| RSN116140    | .055   | 25    |
| RSN116130    | .033   | 15    |
| RSN112010    | .057   | 26    |

## Relay Socket Dimensions



# Non-Environmental Relay Sockets

## Solder Termination

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

### 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

#### Hardware:

Stainless Steel or Steel w/

Cadmium Chromate Finish

#### Contact Retainers:

Stainless Steel

#### Socket Contacts:

Copper Alloy, Hard Gold Plated in

Accordance with SAE-AMS 2422

## Relay Sockets



Mates with M25027 & Series 9226, 9224, 9225, 9220, 9229, 9927 Leach Corp. Relays

## Solder Termination Relay Sockets

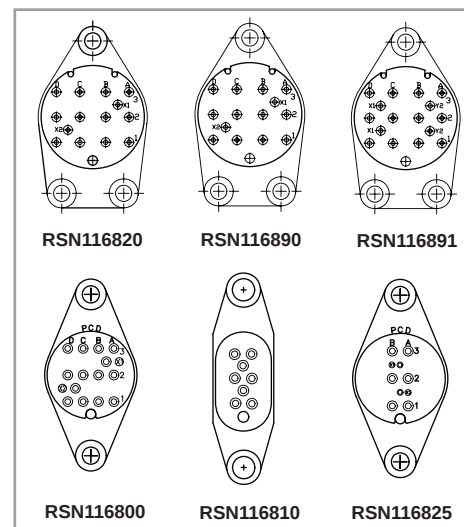
| APCD P/N  | Ref MIL STD Socket | MIL STD Relay           | Leach Corp Relay |
|-----------|--------------------|-------------------------|------------------|
| RSN116820 | MS25330            | MS25329 (6 Pole/5 Amp)  | 9226 Series      |
| RSN116890 | MS25328            | MS25327 (4 Pole/10 Amp) | 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      |

Mounting instructions can be found on page 26

## Product Description

Solder Termination Relay Sockets with Polyetherimide body and scalloped mounting flange to reduce weight and improve strength. Mounting hardware supplied with product.

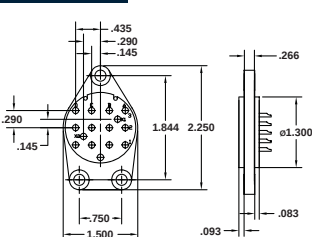
## Socket Configurations



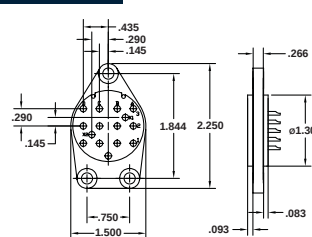
## Relay Socket Dimensions

### Solder Termination

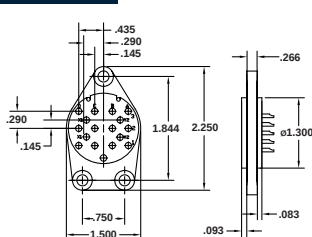
#### RSN116820



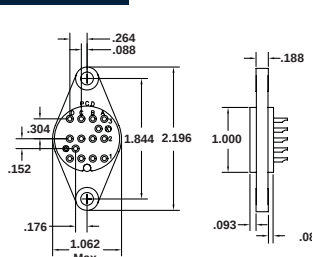
#### RSN116890



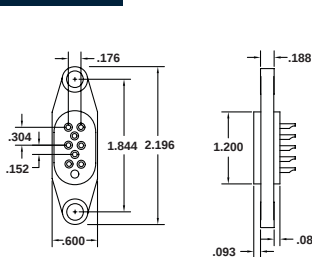
#### RSN116891



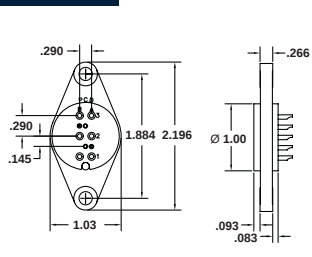
#### RSN116800



#### RSN116810



#### RSN116825



## Relay Socket Weight

| Relay Socket | Pounds | Grams |
|--------------|--------|-------|
| RSE120020    | .024   | 11    |
| RSE120074    | .024   | 11    |
| RSN120070    | .044   | 20    |

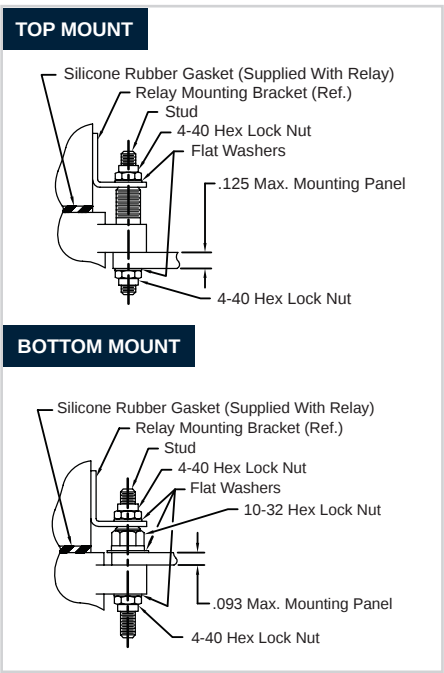
Amphenol Pcd

# Relay Socket Mounting Instructions

## Top Mount & Bottom Mount

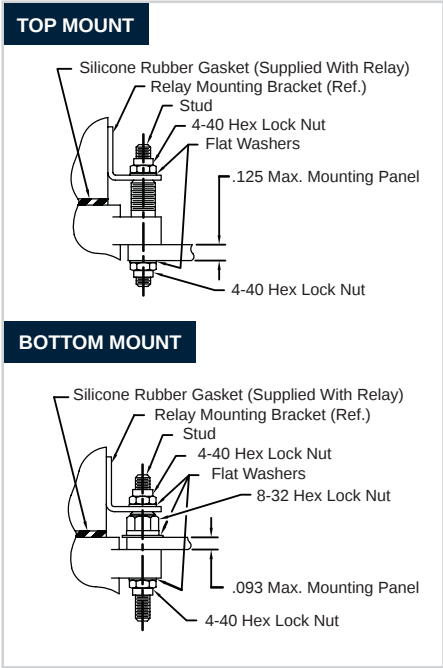
### Mounting Instructions

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



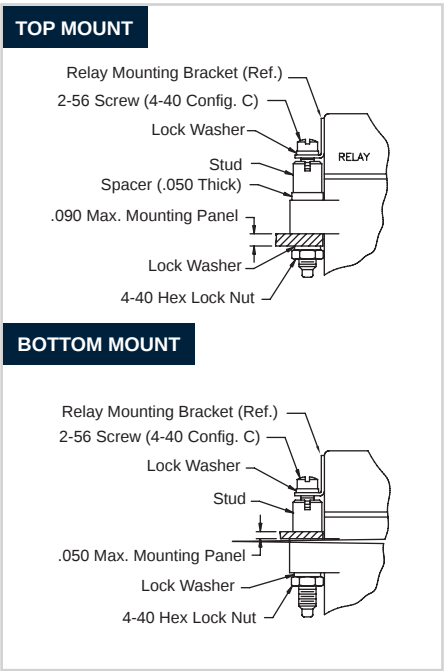
### Mounting Instructions

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



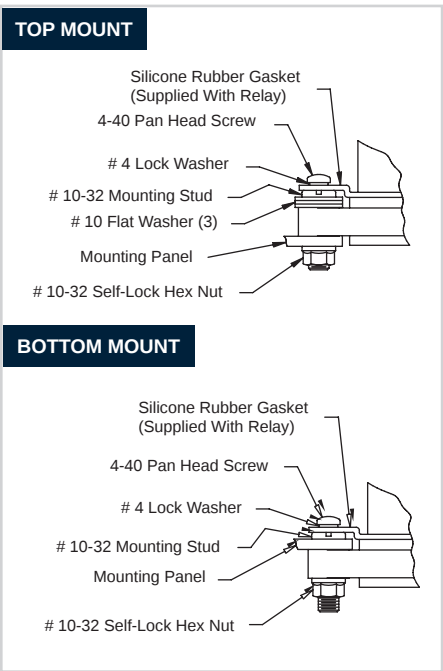
### Mounting Instructions

Mircominature Relay Sockets



### Mounting Instructions

Non-Enviromental Solder Termination Relay Sockets



# Amphenol Pcd Relay Sockets

## JRS/JRE Quick Mount Relay sockets

### Amphenol Pcd Quick Mount Relay Sockets

Amphenol Pcd recently introduced the JRS/JRE line Quick-Mount Relay Sockets. These relay sockets snap mount into standard aircraft panel cutouts and eliminate all socket-to-bulkhead mounting hardware, simplifying installation and dramatically reducing weight and installed cost. JRS/JRE line 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 utilized in existing avionics systems with standard slotted panel cutouts.



JRS 4 Pole  
Relay Sockets

JRS 3 Pole  
Relay Sockets

JRS 2 Pole  
Relay Sockets

JRS 1 Pole  
Relay Sockets

JRE 2 Pole  
Relay Sockets

JRE 4 Pole  
Relay Sockets

### Key Features and Benefits

#### 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

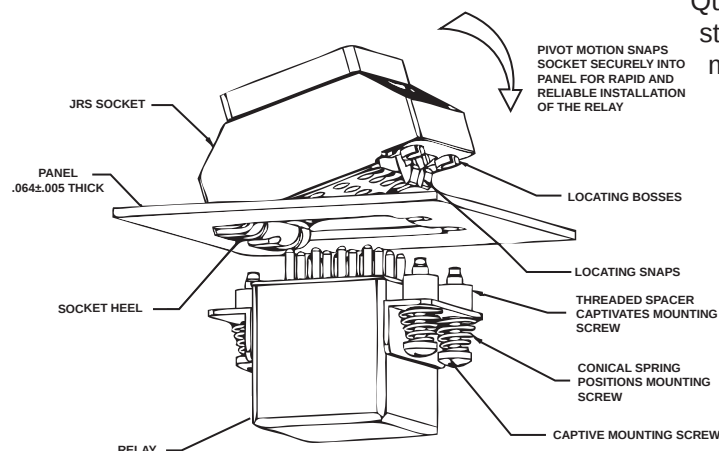
The combination of snap-in relay-to-panel mounting and pre-assembled relay hardware eliminates all loose hardware from the socket and relay mounting and installation process. The logistical and safety issues related with loose hardware are completely avoided.

#### 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%.



## Quick Mount Relay Sockets



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

# Quick Mount Relay Sockets

## JRS 1 Pole / 25 Amp / Size 12 & 16

### 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-213, Method 213

Test Condition C

### Materials

#### Socket Body:

Polythermide per ASTM-D5205

#### Grommet:

Silicone Rubber per A-A-59588

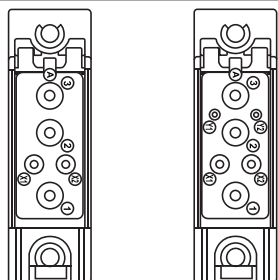
#### Contact Retainers:

Stainless Steel

#### Internal Socket Contacts:

Copper Alloy, Hard Gold Finish  
per SAE-AMS-2422

## Socket Configurations



A

B

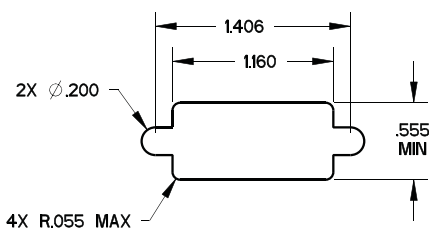
## Extended Height Relay Sockets

| APCD P/N  | QTY | Size  | Contact | Mating Relay       | Configuration |
|-----------|-----|-------|---------|--------------------|---------------|
| JRS500100 | 2   | 16/16 | /92-533 | M6106/19, M6106/20 | A             |
|           | 3   | 12/12 | /92-535 |                    |               |
| JRS500200 | 2   | 16/16 | /92-533 | M6106/19, M6106/20 | B             |
|           | 3   | 12/12 | /92-535 |                    |               |

## Relay Socket Weight

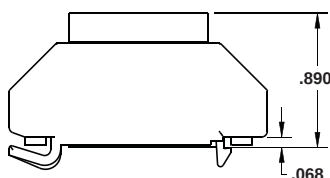
| Relay Socket | Pounds | Grams |
|--------------|--------|-------|
| Low Profile  | .042   | 19    |

## Required Mounting Panel Cutout

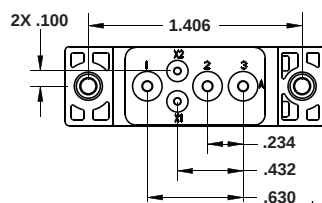


## Relay Socket Dimensions

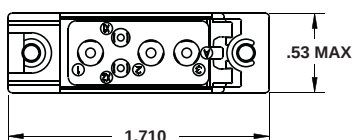
### Side View



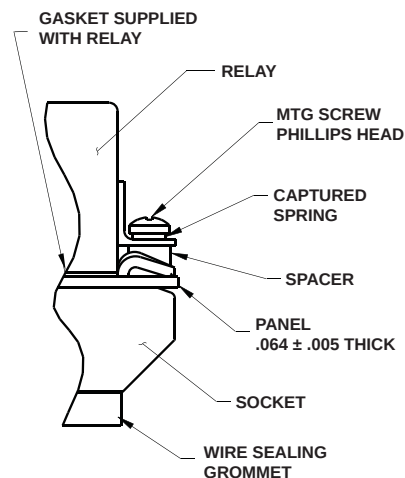
### Top View



### Bottom View



## Mounting Hardware



## Part Number Instructions

| APCD P/N  | Hardware | Contacts |
|-----------|----------|----------|
| JRS500100 | NONE     | NONE     |
| JRS500101 | NONE     | YES      |
| JRS500110 | YES      | NONE     |
| JRS500111 | YES      | YES      |

# Quick Mount Relay Sockets

## JRS 2 Pole / 10 Amp / Size 16

### 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-213, Method 213

Test Condition C

### Materials

#### Socket Body:

Polythermide per ASTM-D5205

#### Grommet:

Silicone Rubber per A-A-59588

#### Contact Retainers:

Stainless Steel

#### Internal Socket Contacts:

Copper Alloy, Hard Gold Finish  
per SAE-AMS-2422

## Quick Mount Relay Sockets

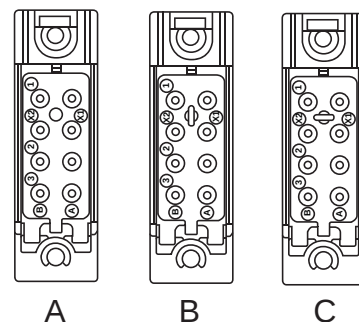


Replaces MIL-PRF-12883/41  
Mates with M83536 Relays

### Extended Height Relay Sockets

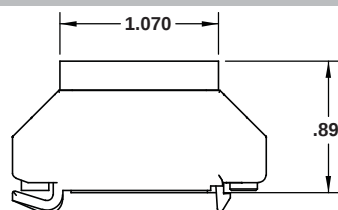
| APCD P/N  | QTY | Size <sup>1</sup> | Contact | Mating Relay | Configuration |
|-----------|-----|-------------------|---------|--------------|---------------|
| JRS200100 | 8   | 16/16             | /92-533 | M83536       | A             |
| JRS200200 | 8   | 16/16             | /92-533 | M83536       | B             |
| JRS200300 | 8   | 16/16             | /92-533 | M83536       | C             |

### Socket Configurations

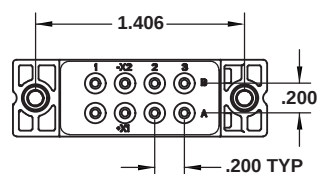


### Relay Socket Dimensions

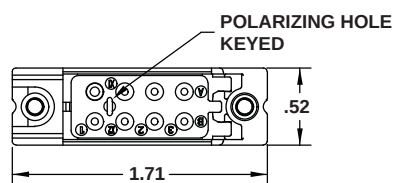
#### Side View



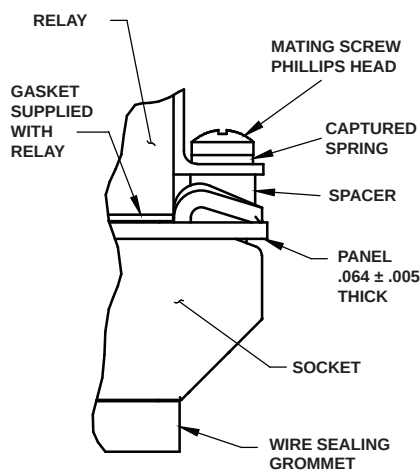
#### Top View



#### Bottom View



### Mounting Hardware



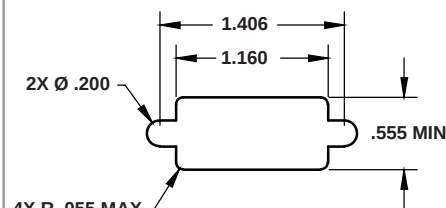
### Part Number Instructions

| APCD P/N  | Hardware | Contacts |
|-----------|----------|----------|
| JRS200100 | NONE     | NONE     |
| JRS200101 | NONE     | YES      |
| JRS200110 | YES      | NONE     |
| JRS200111 | YES      | YES      |

### Relay Socket Weight

| Relay Socket | Pounds | Grams |
|--------------|--------|-------|
| Low Profile  | .042   | 19    |

### Required Mounting Panel Cutout



**Amphenol Pcd**

## Quick Mount Relay Sockets



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

# Quick Mount Relay Sockets

## JRS 3 Pole / 25 Amp / Size 12 & 16

### 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-213, Method 213

Test Condition C

### Materials

Socket Body:

Polythermide per ASTM-D5205

Grommet:

Silicone Rubber per A-A-59588

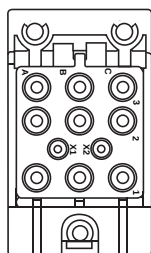
Contact Retainers:

Stainless Steel

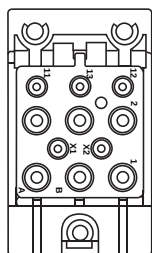
Internal Socket Contacts:

Copper Alloy, Hard Gold Finish  
per SAE-AMS-2422

## Socket Configurations



A



B

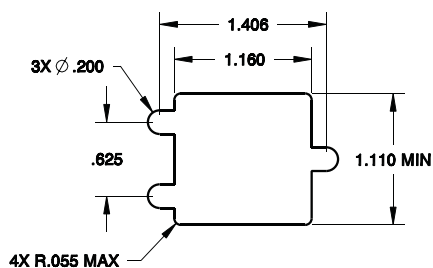
## Extended Height Relay Sockets

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

## Relay Socket Weight

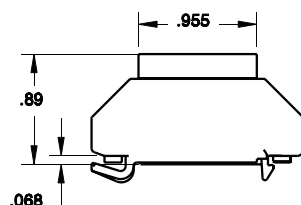
| Relay Socket | Pounds | Grams |
|--------------|--------|-------|
| Low Profile  | .075   | 34    |

## Required Mounting Panel Cutout

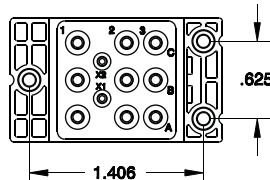


## Relay Socket Dimensions

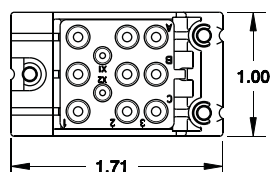
### Side View



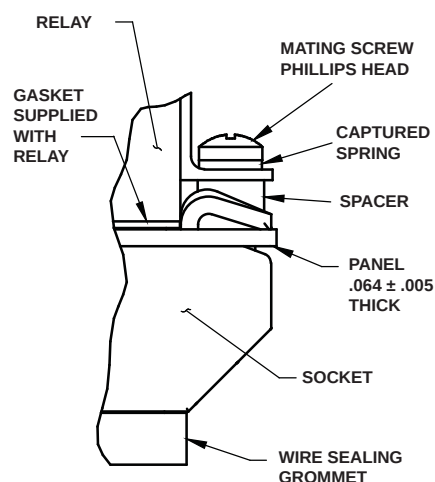
### Top View



### Bottom View



## Mounting Hardware



## Part Number Instructions

| APCD P/N  | Hardware | Contacts |
|-----------|----------|----------|
| JRS300100 | NONE     | NONE     |
| JRS300101 | NONE     | YES      |
| JRS300110 | YES      | NONE     |
| JRS300111 | YES      | YES      |

# Quick Mount Relay Sockets

## JRS 4 Pole / 10 Amp / Size 16

### 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-213, Method 213

Test Condition C

### Materials

**Socket Body:**

Polythermide per ASTM-D5205

**Grommet:**

Silicone Rubber per A-A-59588

**Contact Retainers:**

Stainless Steel

**Internal Socket Contacts:**

Copper Alloy, Hard Gold Finish

per SAE-AMS-2422

## Quick Mount Relay Sockets



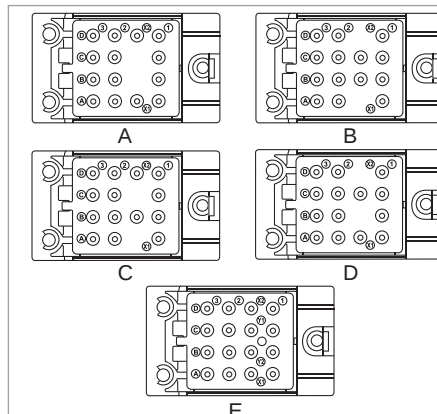
Replaces MIL-PRF-12883/40

Mates with M83536, 83726 & MS27709 Relays

### Extended Height Relay Sockets

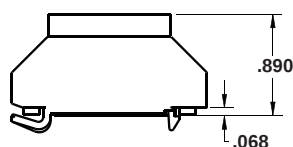
| APCD P/N  | QTY | Size <sup>1</sup> | Contact | Mating Relay            | Configuration |
|-----------|-----|-------------------|---------|-------------------------|---------------|
| JRS400100 | 14  | 16/16             | /92-533 | M83536, M83726, MS27709 | A             |
| JRS400200 | 14  | 16/16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

### Socket Configurations

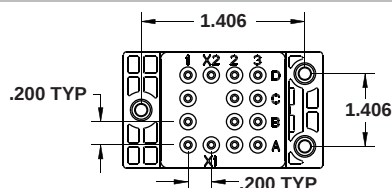


### Relay Socket Dimensions

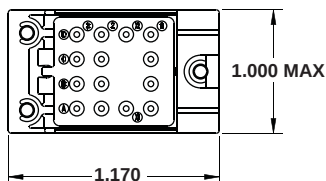
#### Side View



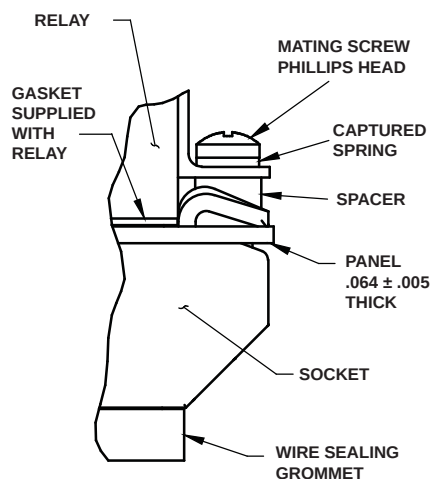
#### Top View



#### Bottom View



### Mounting Hardware



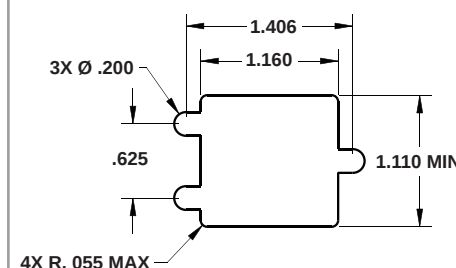
### Part Number Instructions

| APCD P/N  | Hardware | Contacts |
|-----------|----------|----------|
| JRS400100 | NONE     | NONE     |
| JRS400101 | NONE     | YES      |
| JRS400110 | YES      | NONE     |
| JRS400111 | YES      | YES      |

### Relay Socket Weight

| Relay Socket | Pounds | Grams |
|--------------|--------|-------|
| Low Profile  | .068   | 31    |

### Required Mounting Panel Cutout



# Amphenol Pcd

## Quick Mount Relay Sockets



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

# Quick Mount Relay Sockets

## JRE 2 Pole / 5 Amp / Size 20

### 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-213, Method 213

Test Condition C

### Materials

**Socket Body:**

Polythermide per ASTM-D5205

**Grommet:**

Silicone Rubber per A-A-59588

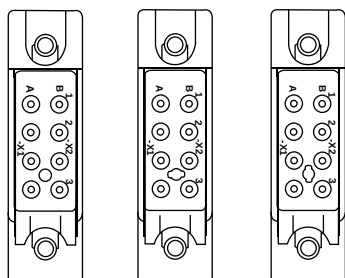
**Contact Retainers:**

Stainless Steel

**Internal Socket Contacts:**

Copper Alloy, Hard Gold Finish  
per SAE-AMS-2422

## Socket Configurations



A B C

## Extended Height Relay Sockets

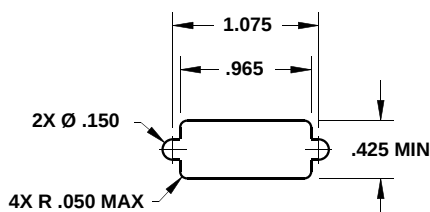
| APCD P/N  | QTY | Size  | Contact  | Mating Relay  | Configuration |
|-----------|-----|-------|----------|---------------|---------------|
| JRE200100 | 8   | 20/20 | /101-533 | M83536, M6106 | A             |
| JRE200200 | 8   | 20/20 | /101-533 | M83536, M6106 | B             |
| JRE200300 | 8   | 20/20 | /101-533 | M83536, M6106 | C             |

*Applies to all plug-in type relays of these documents*

## Relay Socket Weight

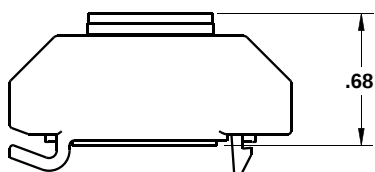
| Relay Socket | Pounds | Grams |
|--------------|--------|-------|
| Low Profile  | .042   | 19    |

## Recommended Mounting Panel Cutout

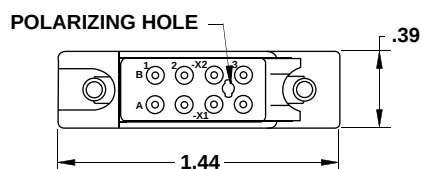


## Relay Socket Dimensions

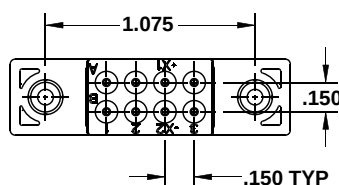
### Side View



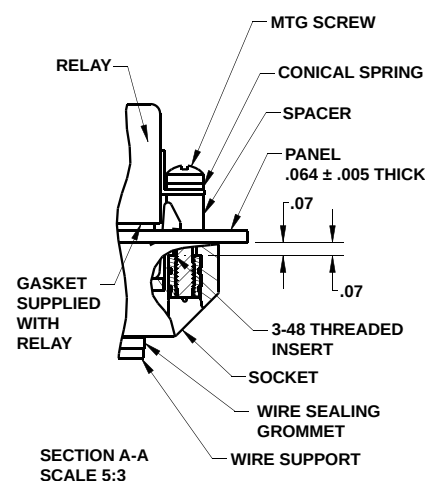
### Top View



### Bottom View



## Mounting Hardware



## Part Number Instructions

| APCD P/N  | Hardware | Contacts |
|-----------|----------|----------|
| JRE200100 | NONE     | NONE     |
| JRE200101 | NONE     | YES      |
| JRE200110 | YES      | NONE     |
| JRE200111 | YES      | YES      |

# Quick Mount Relay Sockets

## JRE 4 Pole / 5 Amp / Size 20

### 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-213, Method 213

Test Condition C

### Materials

**Socket Body:**

Polythermide per ASTM-D5205

**Grommet:**

Silicone Rubber per A-A-59588

**Contact Retainers:**

Stainless Steel

**Internal Socket Contacts:**

Copper Alloy, Hard Gold Finish

per SAE-AMS-2422

## Quick Mount Relay Sockets

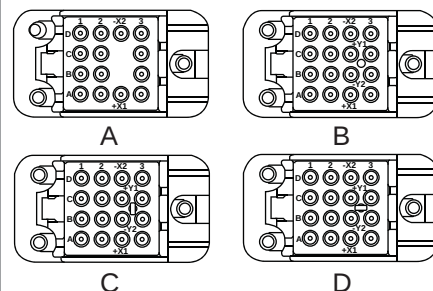


Replaces MIL-PRF-12883/44  
Mates with M83536 Relays

### Extended Height Relay Sockets

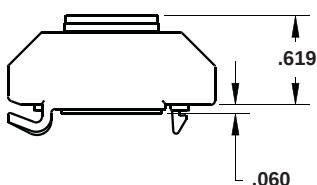
| APCD P/N  | QTY | Size  | Contact  | Mating Relay                 | Configuration |
|-----------|-----|-------|----------|------------------------------|---------------|
| JRE400100 | 10  | 20/20 | /101-533 | M83536/5, M83536/6, M83536/7 | A             |
| JRE400200 | 12  | 20/20 | /101-533 | M83536/5, M83536/6, M83536/7 | B             |
| JRE400300 | 12  | 20/20 | /101-533 | M83536/5, M83536/6, M83536/7 | C             |
| JRE400400 | 12  | 20/20 | /101-533 | M83536/5, M83536/6, M83536/7 | D             |

### Socket Configurations

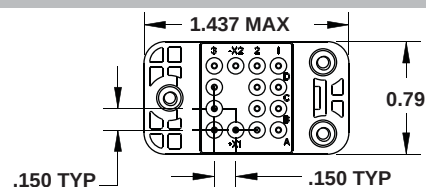


### Relay Socket Dimensions

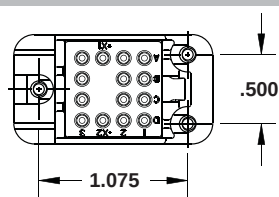
#### Side View



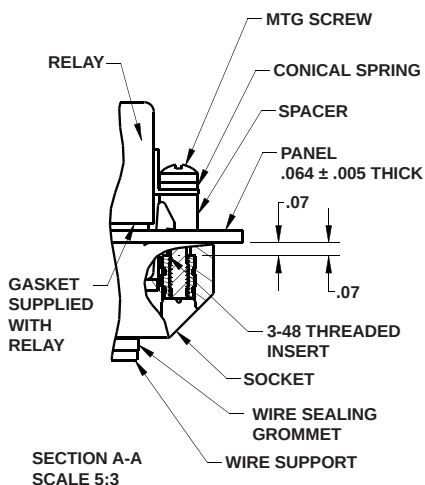
#### Top View



#### Bottom View



### Mounting Hardware



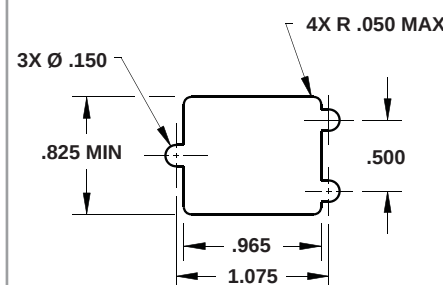
### Part Number Instructions

| APCD P/N  | Hardware | Contacts |
|-----------|----------|----------|
| JRE400100 | NONE     | NONE     |
| JRE400101 | NONE     | YES      |
| JRE400110 | YES      | NONE     |
| JRE400111 | YES      | YES      |

### Relay Socket Weight

| Relay Socket | Pounds | Grams |
|--------------|--------|-------|
| Low Profile  | .068   | 31    |

### Required Mounting Panel Cutout



# Amphenol Pcd