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(Follow Amphenol Pcd to keep up with our Connecting Solutions)



Military

Commercial Aerospace

Industrial

Amphenol Pcd, a subsidiary of Amphenol Corporation, is one of the world's leading suppliers of interconnect products for Military, Commercial Aerospace and Industrial applications. Located north of Boston in Beverly, Massachusetts, the company designs and manufactures a wide range of products - System Attachments, Junction Modules, Relay Sockets, Terminal Blocks, Rectangular & Circular connectors, and Cable Assemblies & Adapters. Each product is made and engineered with the highest quality standards in the industry. With facilities in North America and Asia, Amphenol Pcd products are chosen by hundreds of OEMs around the world, reliant on Amphenol's technical excellence, global network of distributors, and cost-effective solutions for custom systems.



Products

- Backshells
- Cable Solutions
- Circular
- Field Bus
- Junction Modules
- Luminus Series
- Military Audio/Power
- Rectangular
- Relay Sockets
- SIM
- System Attachments
- Terminal Blocks
- Waterproof Solutions



Markets and Applications

The primary markets served by Amphenol Pcd are Commercial Aerospace, Military Aerospace, Military Ground Vehicles, 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 shock / vibration performance, and 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, Luminus Series, 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, Luminus Series, In-Line Junctions, System Attachments, 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, System Attachments, 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, and 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, Push-Pull Mini Connectors, Field Series Connectors, Sealed Miniature Connectors, and SIM Connectors.



Industrial & Rail Mass Transit

Market and Applications: Factory Automation, Manufacturing Communications, Earth Moving Equipment Space, 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, Terminal Blocks, Interface Modules, Custom I/O Connectors, Field Series Connectors, Junction Modules, Relay Sockets, Luminus Series, In-Line Junctions, System Attachments and Electronic Modules.



Manufacturing Technology and Capabilities

Amphenol Pcd is a leading manufacturer of 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 five divisions around the world with engineering and production capability in Boston, Los Angeles, Shenzhen, Montreal, and Saigon. These facilities allow Amphenol Pcd to have round the clock engineering support, high volume manufacturing capabilities, and low cost resources. Amphenol Pcd also represents Amphenol India, the European Amphenol divisions of Amphenol Socapex, Amphenol Air LB France, Amphenol Air LB Germany, and Amphenol Limited in the North and South American market.

Quality Assurance

Amphenol Pcd has a strong focus on quality, and to show for it, Amphenol Pcd has been awarded both the AS9100-C:2009 and ISO 9001:2008 quality assurance certificates.

The AS9100-C:2009 is a quality standard that stems from the ISO and adds additionally stringent requirements aimed at the military and commercial aerospace industry.

Amphenol Pcd - Beverly, Massachusetts, USA

Amphenol Pcd, a subsidiary of Amphenol Corporation, is one of the world's leading suppliers of interconnect products for Military, Commercial Aerospace and Industrial applications. Located north of Boston in Beverly, Massachusetts, the company designs and manufactures a wide range of products - System Attachments, Junction Modules, Relay Sockets, Terminal Blocks, Rectangular & Circular connectors, and Cable Assemblies. Each product is made and engineered with the highest quality standards in the industry. With facilities in North America and Asia, Amphenol Pcd products are chosen by hundreds of OEMs around the world, reliant on Amphenol's technical excellence, global network of distributors, and cost-effective solutions for custom systems.



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Amphenol Pcd China - Shenzhen, China

Amphenol Pcd China is Amphenol Pcd's sister division in Shenzhen, China. The facility has a large manufacturing and production floor and has expertise



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Amphenol Air LB North America is Amphenol Pcd's sister division in Quebec, Canada. This division is the main design and engineering location for Amphenol Pcd's System Attachment product line.



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Relay Sockets

MIL-PRF-12883

Amphenol Pcd offers the industry's broadest line of pluggable relay sockets for commercial and military airborne, ground and shipboard equipment. Sockets are made to MIL-PRF-12883 specifications, plus specialized requirements, and are supplied in a broad range of military standard and special configurations and styles for 2 through 25 amp operations.

Amphenol Pcd Relay Sockets feature state-of-the-art ultrasonically bonded interfaces between the dielectric components, which eliminate air paths and provide protection against moisture and degradation.



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 avionics 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 page 26 for mounting instructions.

Polarization

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

Contacts

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

Military Qualified, QPL Listed

Relay Socket Part Numbers

Military Socket P/N	Amphenol 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	Amphenol 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 Amphenol 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 P/N	Military Socket P/N	APCD Socket P/N	Relay Type	Page
M83536/15-002 M83536/16-006, -014, -031, -034 M83726/1, /2, /3, /4, /28, /29, /30, /31* MS27709-2	M12883/40-01 M12883/40-05 M12883/40-07 M12883/40-11 M12883/40-13 M12883/40-17 M12883/40-19 M12883/40-23	RSL116079 RSL116087 RSL116051 RSL116059 RSE116661 RSE116669 RSE116673 RSE116681	4 Pole / 10 Amp	10-11
M83536/17-002, 17-005	M12883/40-02 M12883/40-08 M12883/40-14 M12883/40-20	RSL116081 RSL116053 RSE116663 RSE116675	4 Pole / 10 Amp	10-11
M83536/18-002, -005, -008, -012 M83536/19-002, -005, -008, -012 M83536/20-002	M12883/40-06 M12883/40-12 M12883/40-18 M12883/40-24	RSL116089 RSL116061 RSL116671 RSE116683	4 Pole / 10 Amp	10-11
M83536/21-006, -014, -022, -030 M83536/22-006, -014, -022, -031	M12883/46-01	RSE116747	3 Pole / 10 Amp	17
M83536/25-002 M83536/26-002	M12883/47-01 M12883/47-04 M12883/47-07 M12883/47-10	RSE116755 RSE116761 RSL116101 RSL116073	6 Pole / 10 Amp	18
M6106/27-002	M12883/47-02 M12883/47-05 M12883/47-08 M12883/47-11	RSE116757 RSE116763 RSL116103 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 M12883/48-02 M12883/48-03 M12883/48-04	RSE112061 RSE112063 RSL112105 RSL112101	3 Pole / 25 Amp	19
MS27743-09, -15, -21, -27	M12883/48-05 M12883/48-06 M12883/48-07 M12883/48-08	RSE112065 RSE112067 RSL112107 RSL112103	3 Pole / 25 Amp	19
Leach Corp. JA-D4E & J	M12883/41-03 M12883/41-08 M12883/41-13 M12883/41-18	RSL116095 RSL116067 RSE116689 RSE116699	2 Pole / 10 Amp	12-13
Leach Corp. KA-D4E & J	M12883/40-04 M12883/40-10 M12883/40-16 M12883/40-22	RSL116085 RSL116057 RSE116667 RSE116679	4 Pole / 10 Amp	10-11

Note: M12883 Relay Sockets are compatible with plug-in or socket pin relays in the specified documents

Relay Socket Cross Reference Chart

Relay to Relay Socket

Military Relay P/N	Military Socket P/N	APCD Socket P/N	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 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 2 Pole / 5 Amp	20
M83536/5-006,-014, -022, -030 M83536/6-006, -015, -022, -032	M12883/44-01	RSE120151	4 Pole / 5 Amp	14
M83536/6-025	M12883/52-002	RSE116185	Track Mount 4 Pole / 5 Amp	20
M83536/7-022	M12883/44-02	RSE120153	4 Pole / 5 Amp	14
M83536/9, -006, -015, -024, -035 M83536/10-006,-015,-024, -034,-038	M12883/41-01 M12883/41-04 M12883/41-06 M12883/41-09 M12883/41-11 M12883/41-14 M12883/41-16 M12883/41-19	RSL116091 RSL116097 RSL116063 RSL116069 RSE116685 RSE116691 RSE116695 RSE116701	2 Pole / 10 Amp	12-13
M83536/11-002, 004, 007	M12883/41-02 M12883/41-07 M12883/41-12 M12883/41-17	RSL116093 RSL116065 RSE116687 RSE116697	2 Pole / 10 Amp	12-13
M83536/13-002, 005, 008, 012 M83536/14-002	M12883/41-05 M12883/41-10 M12883/41-15 M12883/41-20	RSL116099 RSL116071 RSE116693 RSE116703	2 Pole / 10 Amp	12-13

Note: M12883 Relay Sockets are compatible with plug-in or socket pin relays in the specified documents

MIL-PRF-12883/40

Extended Height RSL 4 Pole/10 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

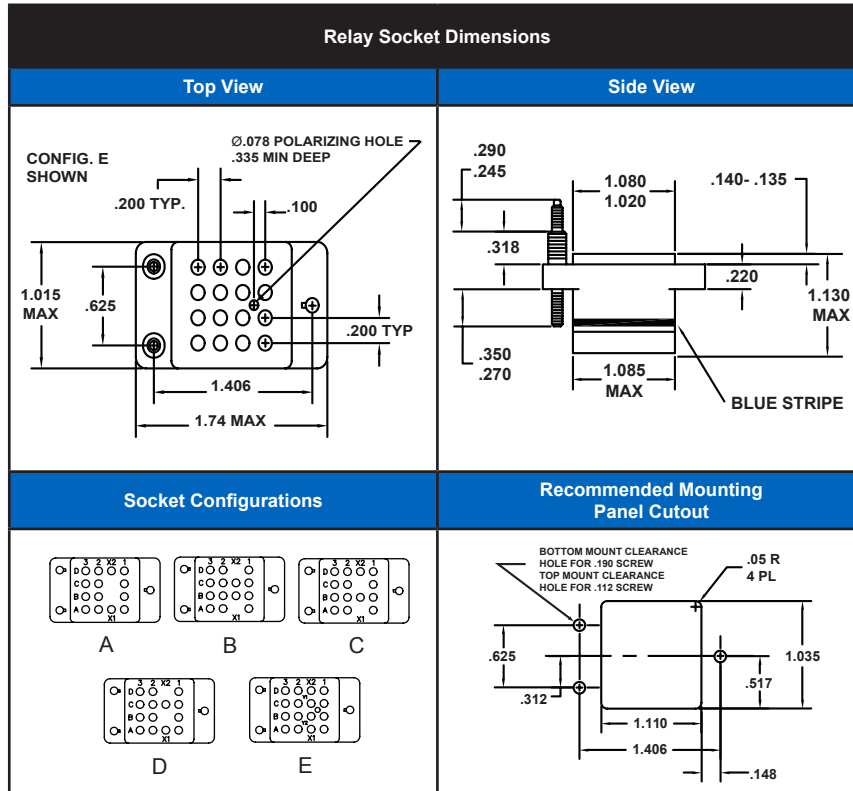
Hardware:
Stainless Steel or Steel
w/Cadmium Chromate Finish

Contact Retainers:
Stainless Steel

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



Mates with M83536, M6106,
M27709, M83726 Relays



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

¹Mating End/ Wire Barrel

Mounting instructions can be found on page 26

MIL-PRF-12883/40

Low Profile RSL 4 Pole/10 Amp



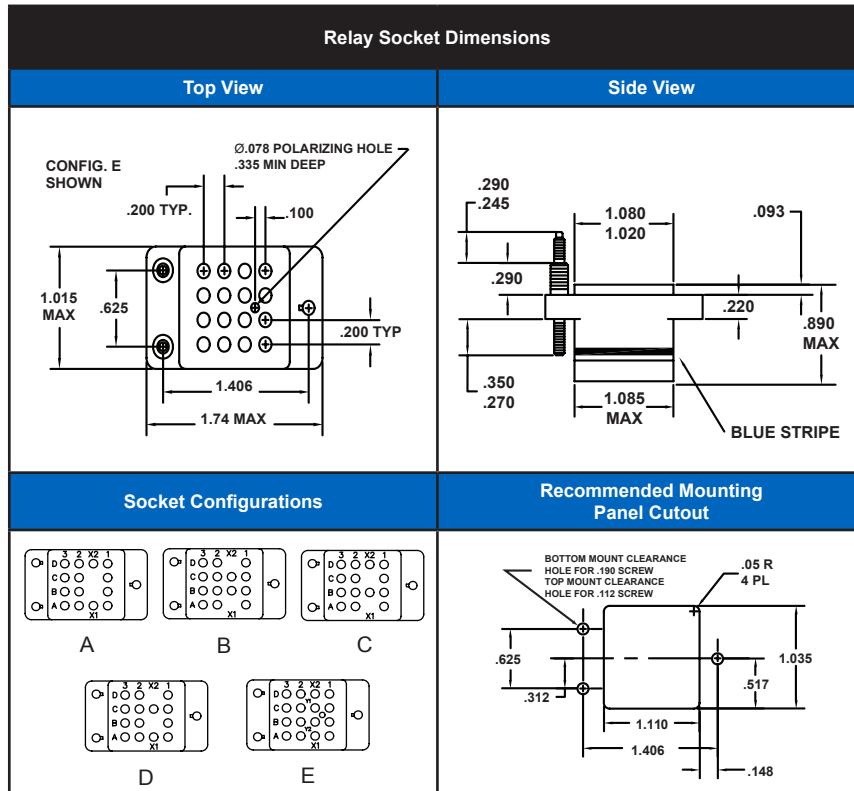
Mates with M83536, M6106,
M27709, M83726 Relays

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



Low Profile Relay Sockets									
MIL P/N M12883	APCD P/N	Mounting Stud	QTY	Size ¹	Contact P/N	Config.	Mating Relay	Weight	
								Pounds	Grams
/40-13	RSE116661	Loose	14	16/16	/92-533	A	M83536/15-022, M83536/16-006,-014,-031,-034 M83726/1,2,3,4,28,29,30,31*, M27709-02	.100	45
/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	/92-534	A	M83536/15-022, M83536/16-006,-014,-031,-034 M83726/1,2,3,4,28,29,31,N27709-02		
/40-18	RSE116671	Loose	16	16/16	/92-533	E	M83536/18-002,005,008,012 M83536/19-002,008,012, M83536/20-002		
/40-19	RSE116673	Fixed	14	16/16	/92-533	A	M83536/15-022, M83536/16-006,-014,-031,-034 M83726/1,2,3,4,28,29,31,N27709-02		
/40-20	RSE116675	Fixed	14	16/16	/92-533	B	M83536/17-002,-005		
/40-21	RSE116677	Fixed	14	16/16	/92-533	C			
/40-22	RSE116679	Fixed	14	16/16	/92-533	D	Leach Corp KA-D4E & J		
/40-23	RSE116681	Fixed	14	16/20	/92-534	A	M83536/15-022, M83536/16-006,-014,-031,-034 M83726/1,2,3,4,28,29,31,M27709-02		
/40-24	RSE116683	Fixed	16	16/16	/92-533	E	M83536/18-002,-005,-008,-012 M83536/19-002,-008,-012, M83536/20-002		

¹Mating End/Wire Barrel
*Applies to all plug-in type relays of these documents

Mounting instructions can be found on page 26

MIL-PRF-12883/41

Extended Height RSL 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-202, Method 213
Test Condition C

Materials

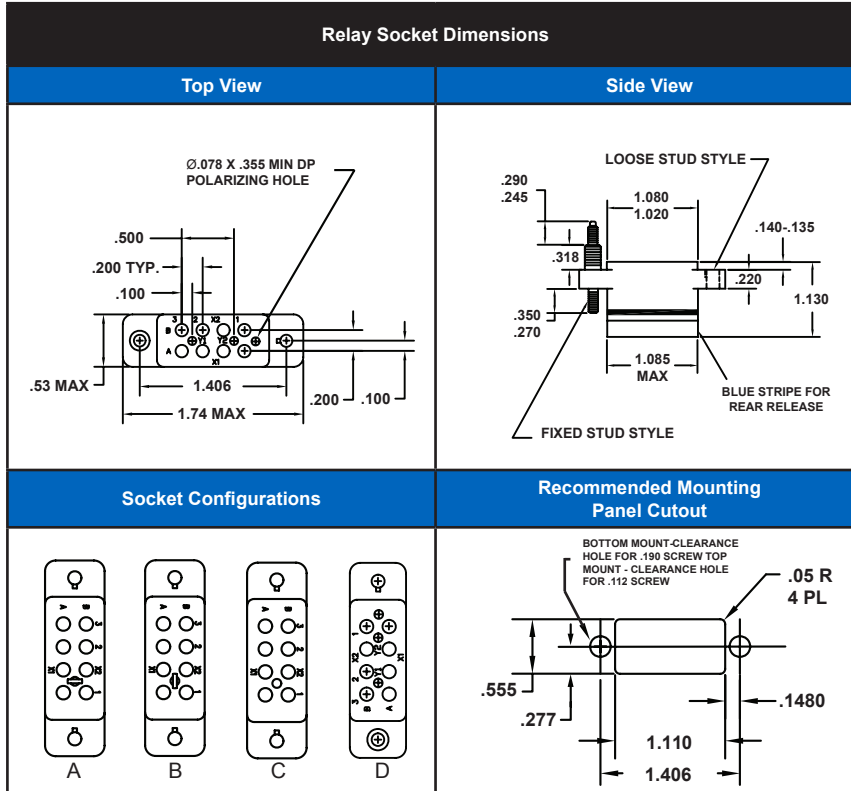
Socket Body:
Polyetherimide per ASTM-D5205

Grommet:
Silicone Rubber per A-A-59588

Hardware:
Stainless Steel or Steel
w/Cadmium Chromate Finish

Contact Retainers:
Stainless Steel

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



Extended Height Relay Sockets								Weight	
MIL P/N M12883	APCD P/N	Mounting Stud	QTY	Size ¹	Contact P/N	Config.	Mating Relay	Pounds	Grams
/41-01	RSL116091	Loose	8	16/16	/5-116	C	M83536/9-006, 015, 024, 035 M83536/10-006, 015, 024, 034, 038	.073	33
/41-02	RSL116093	Loose	8	16/16	/5-116	B	M83536/11-002, 004, 007		
/41-03	RSL116095	Loose	8	16/16	/5-116	A	Leach Corp JA-D4E & J		
/41-04	RSL116097	Loose	8	16/20	/5-117	C	M83536/9-006, 015, 024, 035 M83536/10-006, 015, 024, 034, 038		
/41-05	RSL116099	Loose	8	16/16	/5-116	D	M83536/12-008, /14-008		
				22/22	/5-TBD				
/41-06	RSL116063	Fixed	8	16/16	/5-116	C	M83536/9-006, 015, 024, 035 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 M83536/10-006, 015, 024, 034, 038		
				16/16	/5-116				
/41-10	RSL116071	Fixed	8	22/22	/5-TBD	D	M83536/12-008, /14-008		

¹Mating End/ Wire Barrel

Mounting instructions can be found on page 26

MIL-PRF-12883/41

Low Profile RSE 2 Pole/10 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

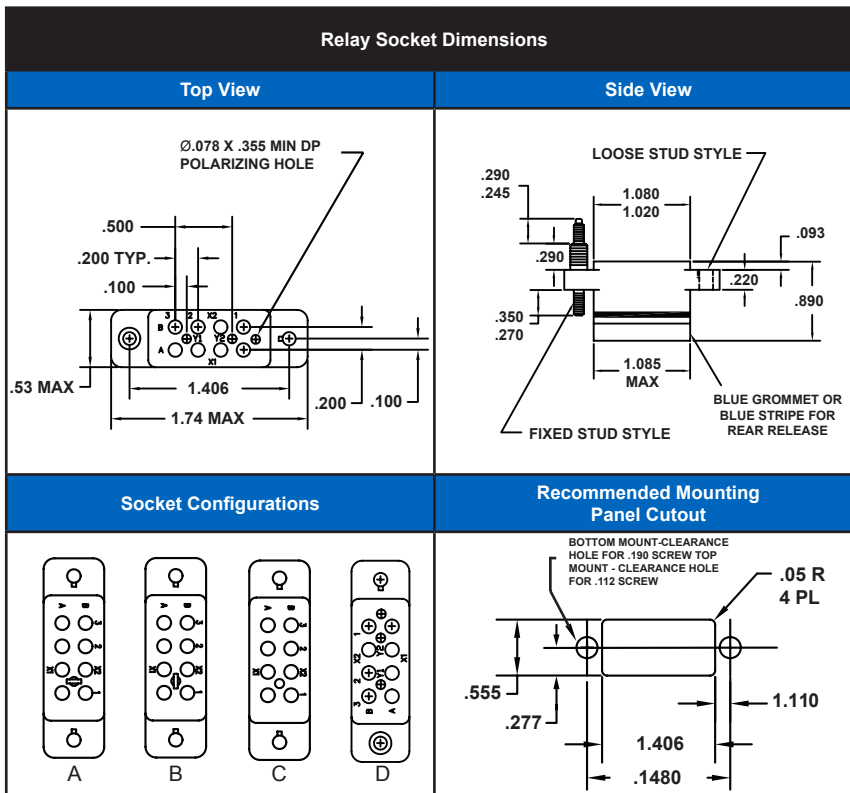
Socket Body:
Polyetherimide per ASTM-D5205

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



Low Profile Relay Sockets								Weight	
MIL P/N M12883	APCD P/N	Mounting Stud	QTY	Size ¹	Contact P/N	Config.	Mating Relay	Pounds	Grams
/41-11	RSE116685	Loose	8	16/16	/92-533	C	M83536/9-006, 015, 024, 035 M83536/10-006, 015, 024, 034, 038	.055	25
/41-12	RSE116687	Loose	8	16/16	/92-533	B	M83536/11-002, 004, 007		
/41-13	RSE116689	Loose	8	16/16	/92-533	A	TBD		
/41-14	RSE116691	Loose	8	16/16	/92-533	C	Leach Corp JA-D4E & J		
/41-15	RSE116693	Loose	8	16/16	/92-533	D	M83536/13-002, 005, -008, -012 M83536/13-002, -005, -008, -012		
			2	22/22	/92-551				
/41-16	RSE116695	Fixed	8	16/16	/92-533	C	M83536/9-006, 015, 024, 035 M83536/10-006, 015, 024, 034, 038		
/41-17	RSE116697	Fixed	8	16/16	/92-533	B	M83536/11-002, 004, 007		
/41-18	RSE116699	Fixed	8	16/16	/92-533	A	Leach Corp JA-D4E & J		
/41-19	RSE116701	Fixed	8	16/20	/92-534	C	M83536/9-006, 015, 024, 035 M83536/10-006, 015, 024, 034, 038		
/41-20	RSE116703	Fixed	8	16/16	/92-553	D	M83536/13-002, -005, -008, -012 M83536/13-002, -005, -008, -012		
			2	22/22	/92-551				

¹Mating End/ Wire Barrel

Mounting instructions can be found on page 26

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

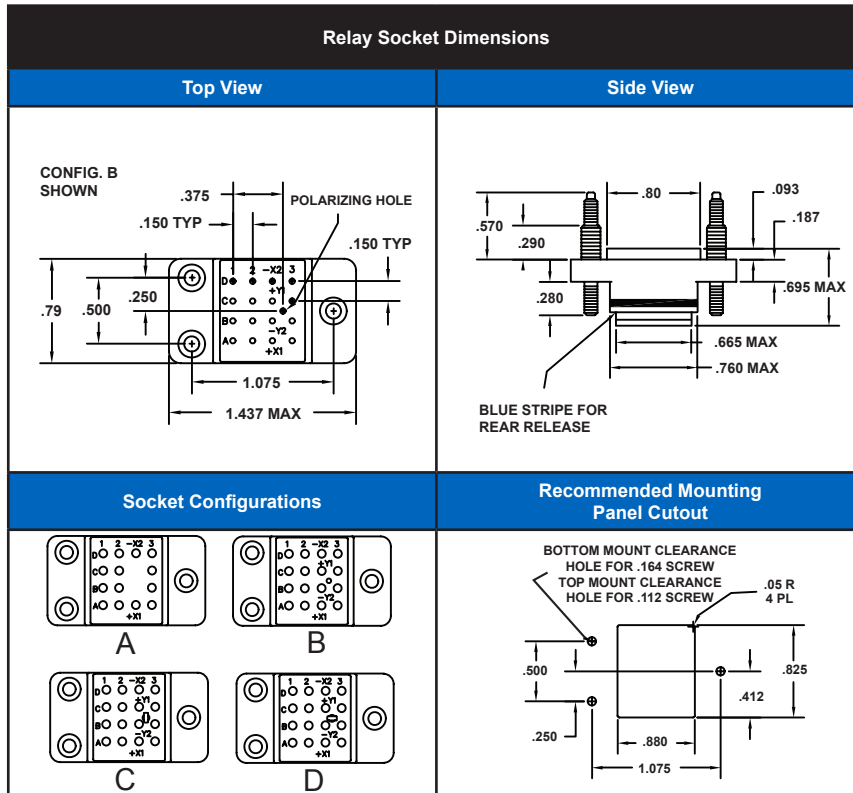
Socket Body:
Polyetherimide per ASTM-D5205

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



Low Profile Relay Sockets								Weight	
MIL P/N M12883	APCD P/N	Mounting Stud	QTY	Size ¹	Contact P/N	Config.	Mating Relay	Pounds	Grams
/44-01	RSE120151	Fixed	14	20/20	/101-553	A	M83536/5-006,-014,-022,-030 M83536/6,-006,-014,-022,-032	.055	25
/44-02	RSE120153	Fixed	16	20/20	/101-553	B	M83536/7-002		
/44-03	RSE120155	Fixed	16	20/20	/101-553	C			
/44-04	RSE120157	Fixed	16	20/20	/101-553	D			

¹Mating End/ Wire Barrel

Mounting instructions can be found on page 26

MIL-PRF-12883/45

RSE 2 Pole/5 Amp



Mates with M83536, M6106 Relays

Operating Range

Temperature:
-65°C to 125°C

Insulation Resistance:
1000 Megohms 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

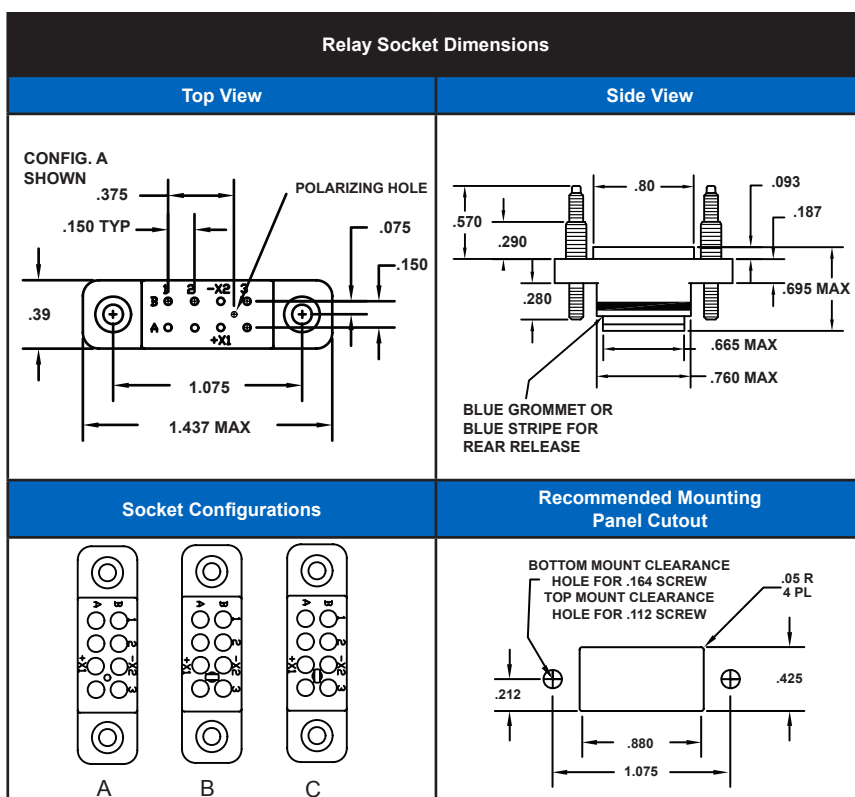
Socket Body:
Polyetherimide per ASTM-D5205

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



Low Profile Relay Sockets								Weight	
MIL P/N M12883	APCD P/N	Mounting Stud	QTY	Size ¹	Contact P/N	Config.	Mating Relay	Pounds	Grams
/45-01	RSE120159	Fixed	8	20/20	/101-533	A	M83536/1-006, -015, -024, -033 M83536/2-006, -015, -024, -035	.033	15
/45-02	RSE120161	Fixed	8	20/20	/101-533	B			
/45-03	RSE120163	Fixed	8	20/20	/101-533	C			

¹Mating End/ Wire Barrel

Mounting instructions can be found on page 26

MIL-PRF-12883/45

RSE 2 Pole/5 Amp

Operating Range

Temperature:
-65°C to 125°C

Insulation Resistance:
1000 Megohms 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

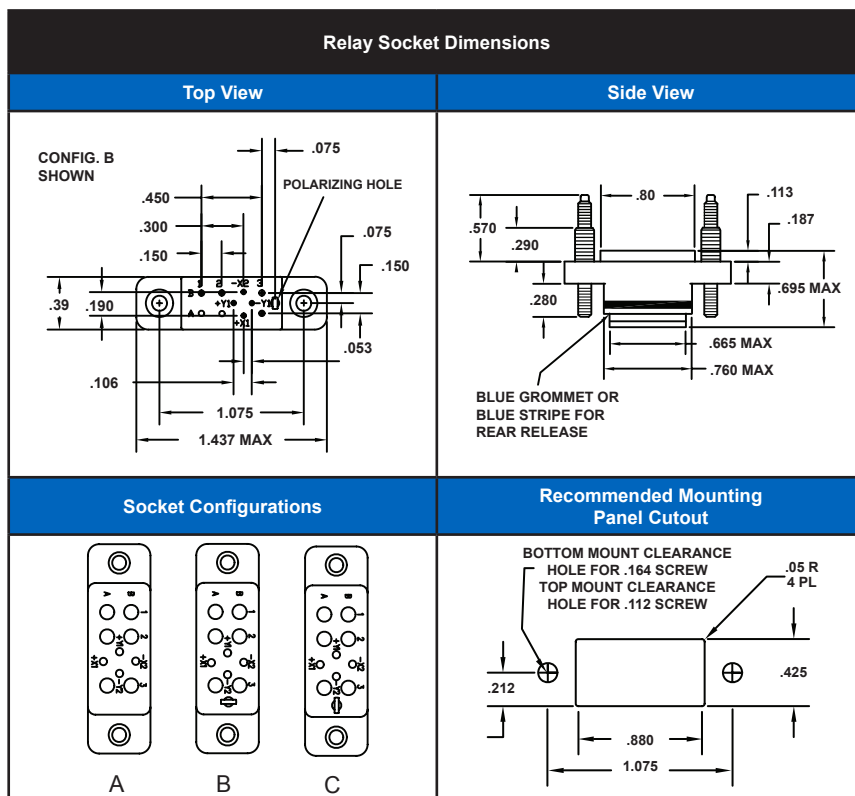
Socket Body:
Polyetherimide per ASTM-D5205

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



Low Profile Relay Sockets								Weight	
MIL P/N M12883	APCD P/N	Mounting Stud	QTY	Size ¹	Contact P/N	Config.	Mating Relay	Pounds	Grams
/45-04	RSE120165	Fixed	6	20/20	/101-553	A	M6106/38-002	.033	15
			4	20/22	/101-552				
/45-05	RSE120167	Fixed	6	20/20	/101-553	B			
			4	20/22	/101-552				
/45-06	RSE120169	Fixed	6	20/20	/101-553	C			
			4	20/22	/101-552				

¹Mating End/ Wire Barrel

Mounting instructions can be found on page 26

MIL-PRF-12883/46

RSE 3 Pole/10 Amp



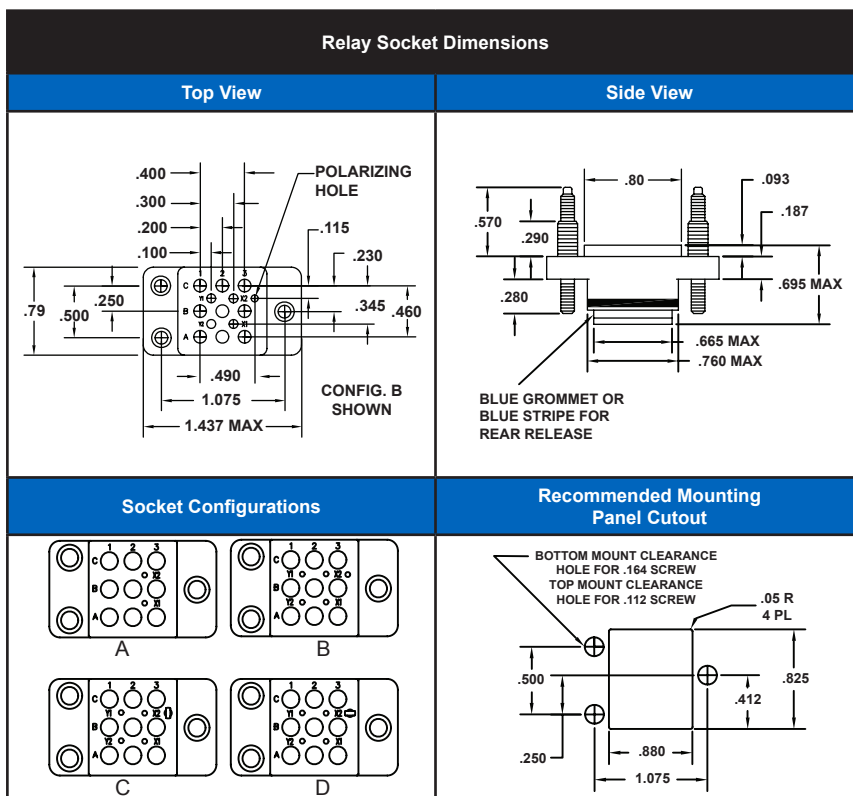
Mates with M83536, M6106 Relays

Operating Range

Temperature:
-65°C to 125°C
Insulation Resistance:
1000 Megohms 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



Low Profile Relay Sockets								Weight	
MIL P/N M12883	APCD P/N	Mounting Stud	QTY	Size ¹	Contact P/N	Config.	Mating Relay	Pounds	Grams
/46-01	RSE116747	Fixed	9	16/16	/101-554	A	M83536/21-006,-014,-022,-030 M83536/22-006,-014,-022,-030	.055	25
			2	20/20	/101-553				
/46-02	RSE116749	Fixed	9	16/16	/101-554	B	M6106/40-002		
			2	20/20	/101-553				
/46-03	RSE116751	Fixed	9	16/16	/101-554	C			
			2	20/20	/101-553				
/46-04	RSE116753	Fixed	9	16/16	/101-554	D			
			2	20/20	/101-553				

¹Mating End/ Wire Barrel

Mounting instructions can be found on page 26

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

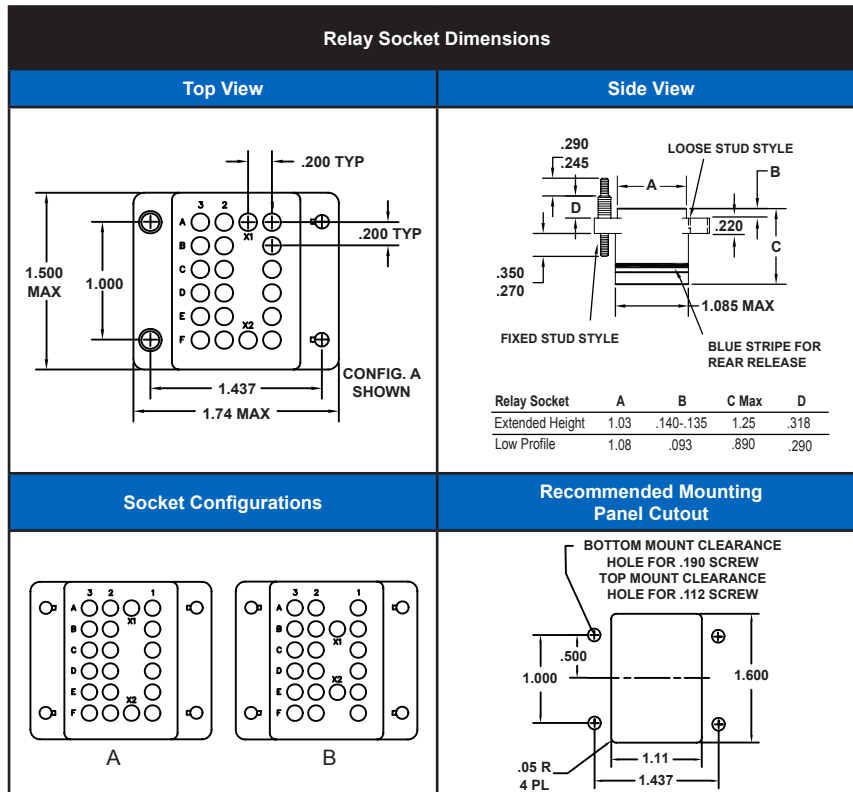
Hardware:
Stainless Steel or Steel
w/Cadmium Chromate Finish

Contact Retainers:
Stainless Steel

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



Mates with M83536, M6106 Relays



Low Profile Relay Sockets

MIL P/N M12883	APCD P/N	Mounting Stud	QTY	Size ¹	Contact P/N	Config.	Mating Relay	Weight	
								Pounds	Grams
/47-01	RSE116755	Loose	20	16/16	/92-533	A	M83536/25-002, M83536/26-002	.144	65
/47-02	RSE116757	Loose	20	16/16	/92-535	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 M12883	APCD P/N	Mounting Stud	QTY	Size ¹	Contact P/N	Config.	Mating Relay	Weight	
								Pounds	Grams
/47-07	RSL116101	Loose	20	16/16	/5-116	A	M83536/25-002, M83536/26-002	.176	80
/47-08	RSL116103	Loose	20	16/16	/5-116	B	M83536/27-002		
/47-10	RSL116073	Fixed	20	16/16	/5-116	A	M83536/25-002, M83536/26-002		
/47-11	RSL116075	Fixed	20	16/16	/5-116	B	M83536/27-002		

¹Mating End/ Wire Barrel

Mounting instructions can be found on page 26

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

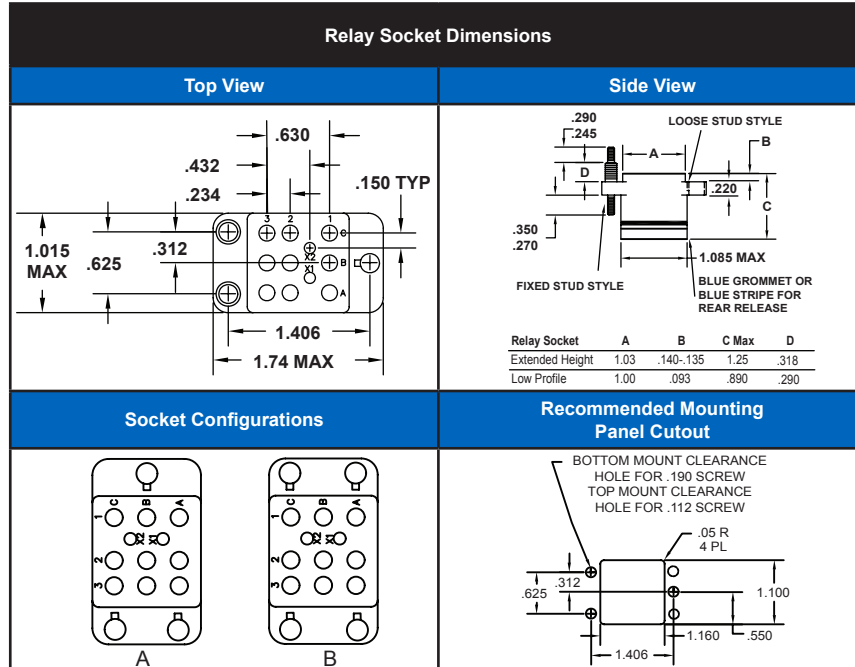
Socket Body:
Polyetherimide per ASTM-D5205

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



Low Profile Relay Sockets									
MIL P/N M12883	APCD P/N	Mounting Stud	QTY	Size ¹	Contact P/N	Config.	Mating Relay	Weight	
								Pounds	Grams
/48-01	RSE112061	Loose	2	16/16	/92-533	A	MS27743-06, -12, -18, -24	.109	49
			9	12/12	/92-535	A	MS27743-06, -12, -18, -24		
/48-02	RSE112063	Fixed	2	16/16	/92-533	A	MS27743-09, -15, -21, -27		
			9	12/12	/92-535	A	MS27743-09, -15, -21, -27		
/48-05	RSE112065	Loose	2	16/16	/92-533	B	MS27743-06, -12, -18, -24		
			9	12/12	/92-535	B	MS27743-06, -12, -18, -24		
/48-06	RSE112067	Fixed	2	16/16	/92-533	B	MS27743-09, -15, -21, -27		
			9	12/12	/92-535	B	MS27743-09, -15, -21, -27		

Extended Height Relay Sockets									
MIL P/N M12883	APCD P/N	Mounting Stud	QTY	Size ¹	Contact P/N	Config.	Mating Relay	Weight	
								Pounds	Grams
/48-03	RSL112105	Loose	2	16/16	/5-116	A	MS27743-06, -12, -18, -24	.129	55
			9	12/12	/5-118	A	MS27743-06, -12, -18, -24		
/48-04	RSL112101	Fixed	2	16/16	/5-116	A	MS27743-09, -15, -21, -27		
			9	12/12	/5-118	A	MS27743-09, -15, -21, -27		
/48-07	RSL112107	Loose	2	16/16	/5-116	B	MS27743-06, -12, -18, -24		
			9	12/12	/5-118	B	MS27743-06, -12, -18, -24		
/48-08	RSL112103	Fixed	2	16/16	/5-116	B	MS27743-09, -15, -21, -27		
			9	12/12	/5-118	B	MS27743-09, -15, -21, -27		

¹Mating End/ Wire Barrel

Mounting instructions can be found on page 26

MIL-PRF-12883/52, MIL PRF-12883/53

RSE Track Mount 2, 3 & 4 Pole & Mounting Track

Operating Range

Temperature:
-65°C to 125°C

Insulation Resistance:
1000 Megaohms Min.

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

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

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

Materials

Socket Body:
Polyetherimide per ASTM-D5205

Grommet:
Silicone Rubber per A-A-59588

Contact Retainers:
Beryllium Copper

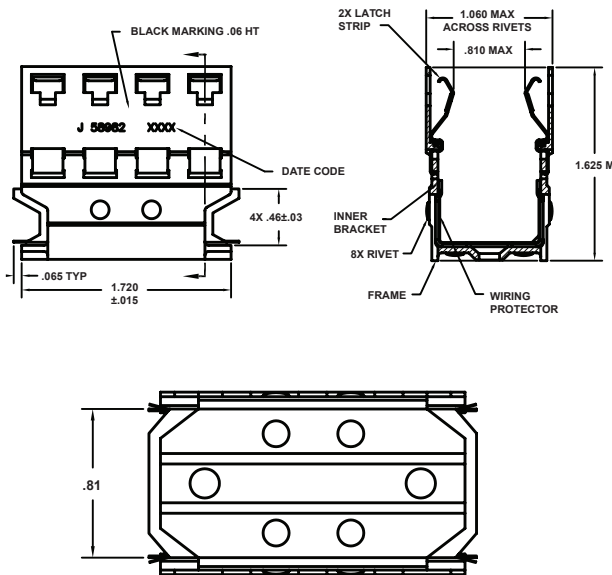
Socket Contacts:
Copper Alloy, Hard Gold Plated in Accordance with MIL-G-45204



Mates with MS83726, M83536
& M6106 Relays

M12883/53-001 Mounting Track Dimensions

Track Dimensions



Track Materials

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

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

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

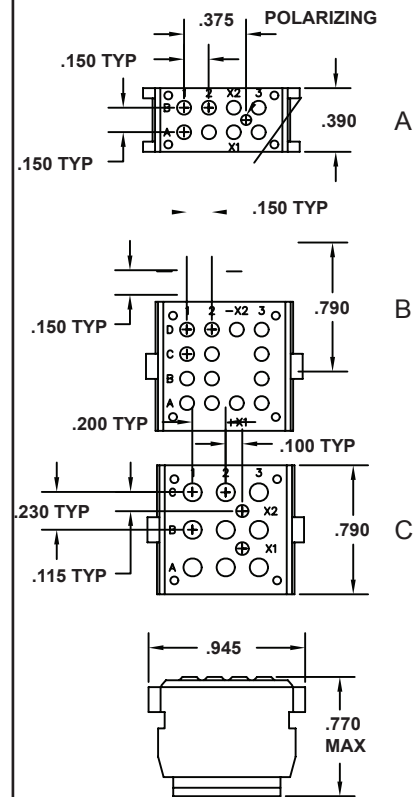
Wiring Protector:
Aramid Paper per MIL-I-24202
Track Operating Range:
-65°C to 125°C

Track Weight

RST145005	
lbs.	Grams
.053	24

Use tool M6106/32-001 to remove M1288/52 sockets.
Use tool M6106/31-001 to remove relays from this mounting bracket.

Socket Dimensions



Low Profile Relay Sockets

MIL P/N M12883*	APCD P/N	QTY	Size ¹	Contact P/N	Config.	Mating Relay	Weight	
							Pounds	Grams
/52-001	RSE116175	8	20/20	/101-553	A	M83536/2-028, M83726/27, /25	.016	7
/52-002	RSE116185	14	20/20	/101-533	B	M83536/6-025	.031	14
/52-003	RSE116195	9	16/16	/101-554	C	M83536/22-025		
		2	20/20	/101-553				

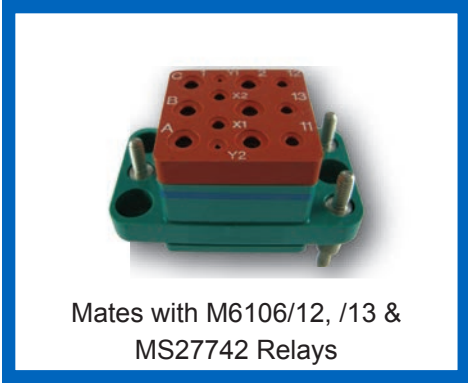
*Mating End/ Wire Barrel

¹These relay sockets are used in track mount system with track M12883/53-001, Amphenol Pcd P/N RST145005

Mounting instructions can be found on page 26

MIL-PRF-12883/54

RSE 3 Pole/25 Amp



Mates with M6106/12, /13 & MS27742 Relays

Operating Range

Temperature:
-65°C to 125°C

Insulation Resistance:
1000 Megaohms Min.

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

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

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

Materials

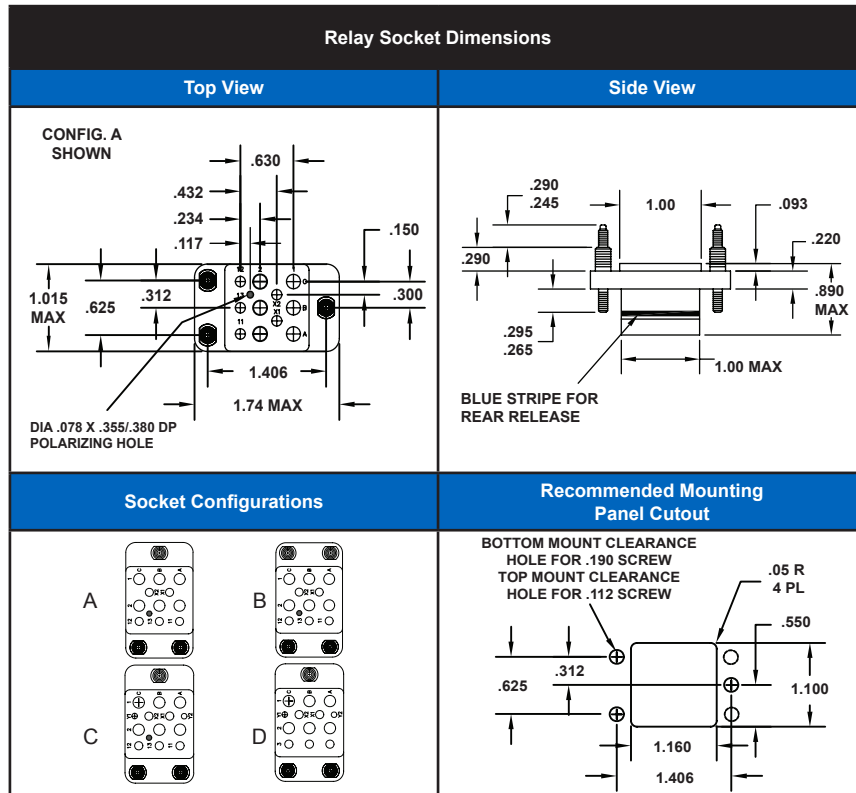
Socket Body:
Polyetherimide per ASTM-D5205

Grommet:
Silicone Rubber per A-A-59588

Hardware:
Stainless Steel or Steel
w/Cadmium Chromate Finish

Contact Retainers:
Stainless Steel

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



Low Profile Relay Sockets								Weight	
MIL P/N M12883	APCD P/N	Mounting Stud	QTY	Size ¹	Contact P/N	Config.	Mating Relay	Pounds	Grams
/54-01	RSE116627	Fixed	5	16/16	/92-533	A	M6106/13-002,-008,-011,-013,-015	.132	60
			6	12/12	/92-535				
/54-02	RSE116631	Fixed	5	16/16	/92-533	B	M6106/13-004		
			6	12/12	/92-535				
/54-03	RSE116629	Fixed	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	.154	70
			2	16/16	/92-535				
			9	12/12	/92-535				

¹Mating End/ Wire Barrel

Mounting instructions can be found on page 26

MIL-PRF-12883/55

RSE 1 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

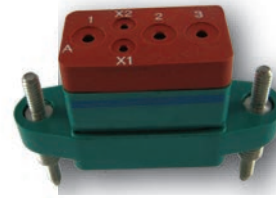
Socket Body:
Polyetherimide per ASTM-D5205

Grommet:
Silicone Rubber per A-A-59588

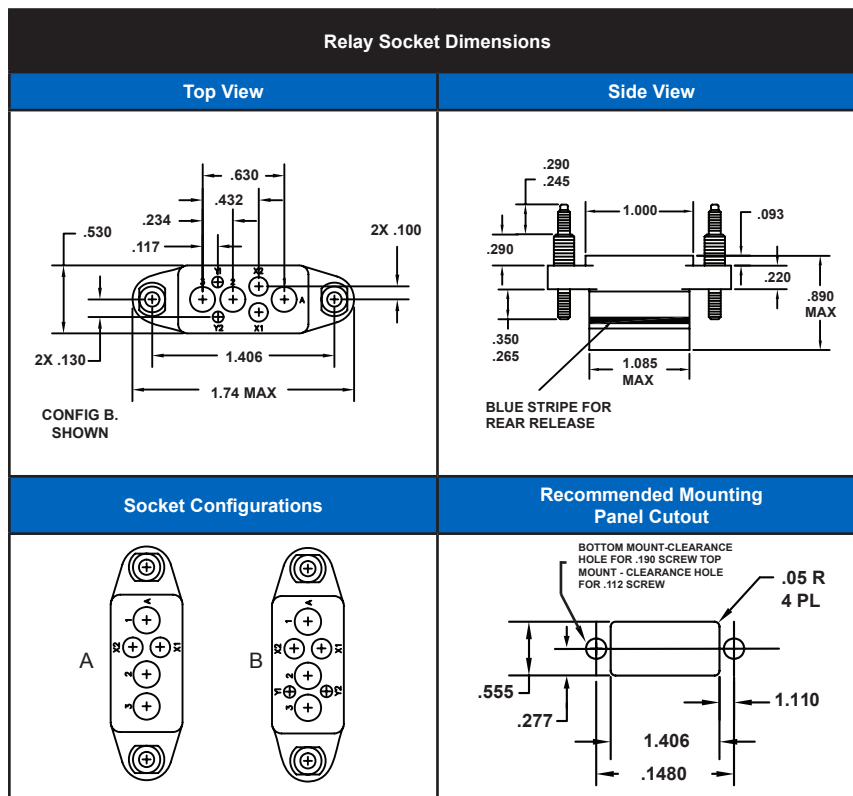
Hardware:
Stainless Steel or Steel
w/Cadmium Chromate Finish

Contact Retainers:
Stainless Steel

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



Mates with M6106/19, 20 Relays



Low Profile Relay Sockets								Weight	
MIL P/N M12883	APCD P/N	Mounting Stud	QTY	Size ¹	Contact P/N	Config.	Mating Relay	Pounds	Grams
/55-01	RSE112035	Fixed	2	16/16	/92-533	A	M6106/19-004, -007, -012, -017, -022	.073	33
			3	12/12	/92-535				
/55-02	RSE112036	Fixed	2	16/16	/92-533	A	M6106/19-004, -007, -012, -017, -022		
			3	12/16	/92-536				
/55-03	RSE112044	Fixed	2	22/22	/92-531	B	M6106/20-002		
			2	16/16	/92-533				
			3	12/12	/92-535				

¹Mating End/ Wire Barrel

Mounting instructions can be found on page 26

Microminiature Relay Sockets

RSE 2&3 Pole, 2 Amp

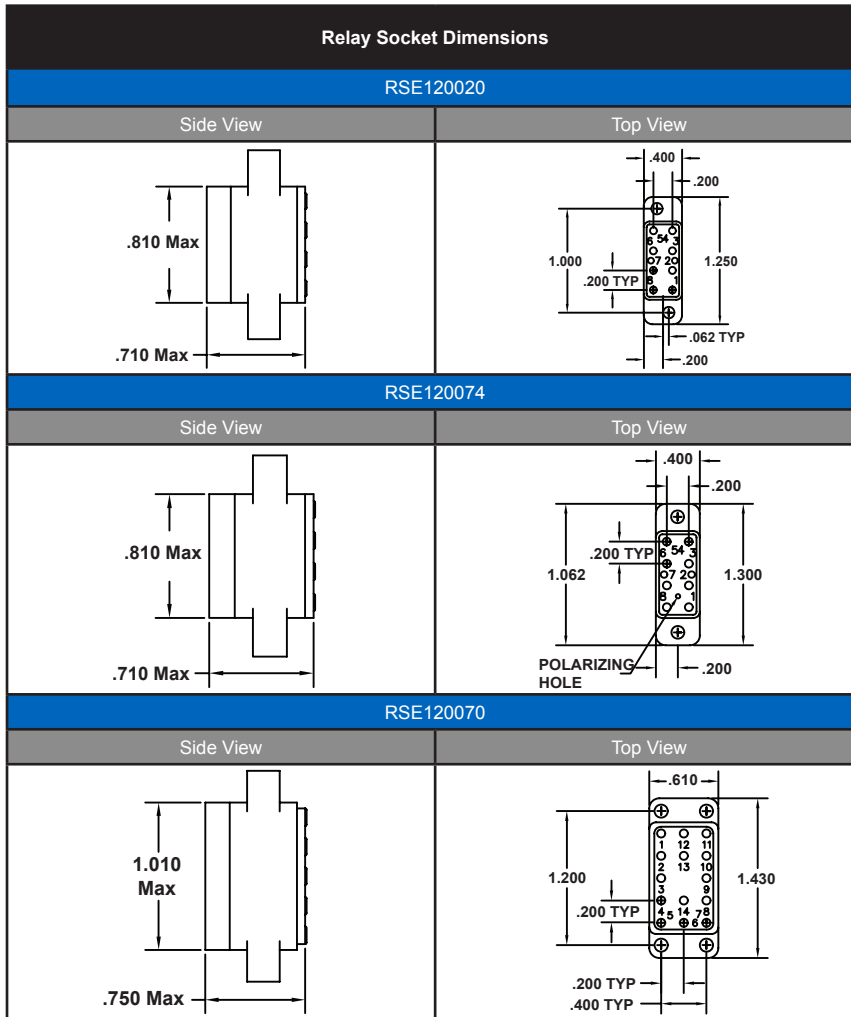


Operating Range

Temperature:
-65°C to 125°C
Insulation Resistance:
1000 Megohms Min.
Dielectric Withstanding
Voltage:
2500 VRMS at Sea Level
700 VRMS at 80,000 ft.
Vibration:
MIL-STD-202, Method 204
Test Condition G
Shock:
MIL-STD-202, Method 213
Test Condition C

Materials

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



Relay Sockets for 2 Pole/2 Amp Microminiature Relays							Weight	
APCD P/N	QTY	Size ¹	Contact P/N	Config.	Mating Relay	Pounds	Grams	
RSE120020	8	22/20	CNS109900	A	MIL-R-5757/10-022,-044			.024
RSE120074	8	22/20	CNS109900	B	MIL-R-39016/55-001,-013,-025,-037			
Relay Sockets for 3 Pole/2 Amp Microminiature Relays							Weight	
APCD P/N	QTY	Size ¹	Contact P/N	Config.	Mating Relay	Pounds	Grams	
RSE120070	14	22/20	CNS109900	C	MIL-R-39016/39-002,-008,-014			.044

¹Mating End/ Wire Barrel

Mounting instructions can be found on page 26

MIL-PRF-12883 Board Mount

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

Socket Body:
Polyetherimide per ASTM-D5205

Hardware:
Stainless Steel or Steel
w/Cadmium Chromate Finish

Contact Retainers:
Stainless Steel

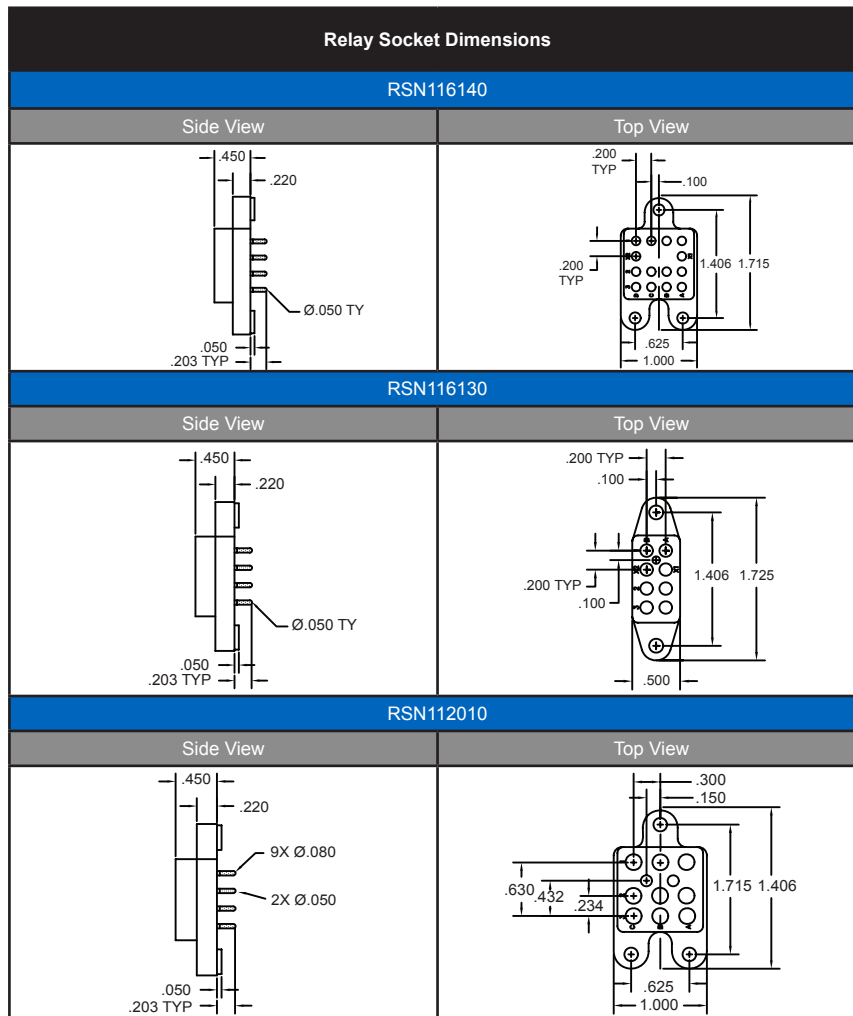
Socket Contacts:
Copper Alloy, Hard Gold Plated
in Accordance with SAE-AMS-2422



Mates with MIL-R-6106
& MS27743 Relays

Product Description

Product line of pluggable, PC Board Mount Relay Sockets allows separable mounting of relays directly 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.



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

¹Mating End/ Wire Barrel

Mounting instructions can be found on page 26

Non-Environmental Relay Sockets

Solder Termination

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



Operating Range

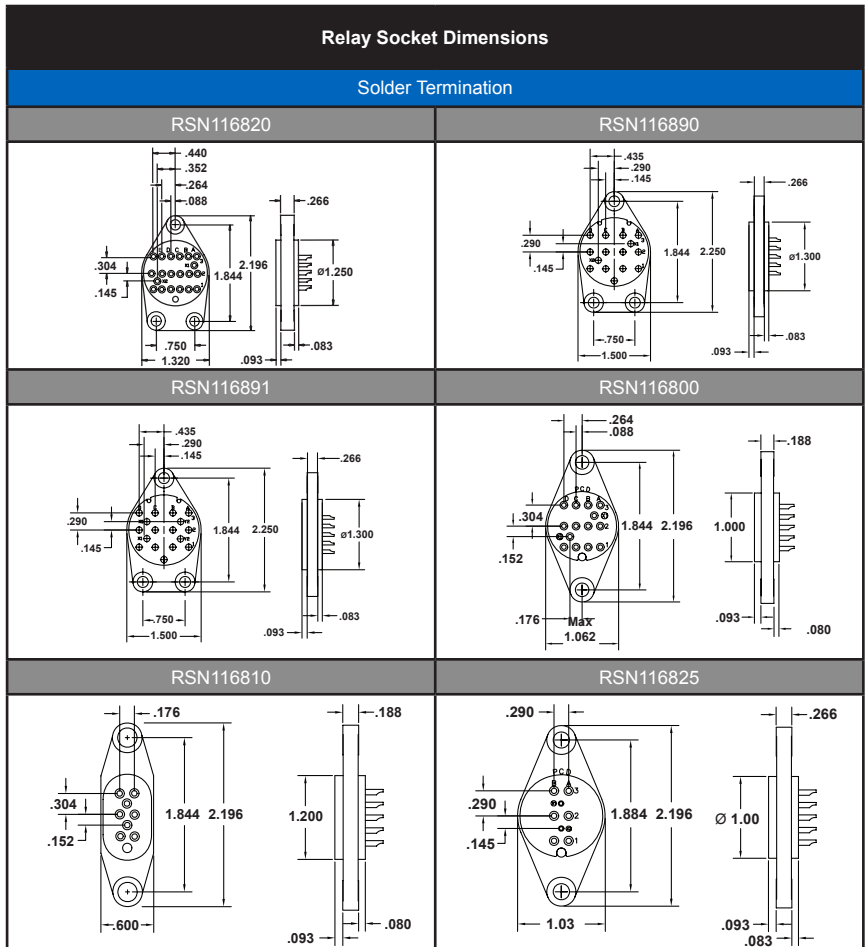
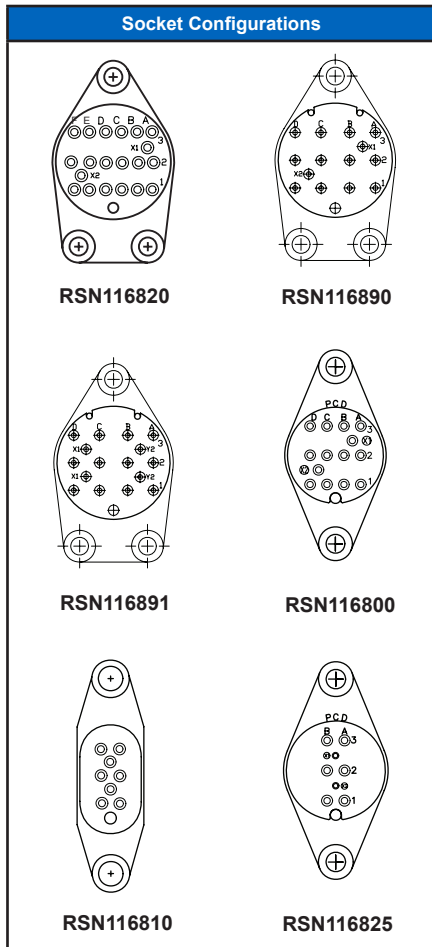
Temperature:
-65°C to 125°C
Insulation Resistance:
1000 Megaohms Min.
Dielectric Withstanding Voltage:
1500 VRMS at Sea Level
500 VRMS at 80,000 ft.
Vibration:
MIL-STD-202, Method 204
Test Condition G
Shock:
MIL-STD-202, Method 213
Test Condition C

Materials

Socket Body:
Polyetherimide per ASTM-D5205
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

Product Description

Solder Termination Relay Sockets are made with a polyetherimide body and scalloped mounting flange to reduce weight and improve strength. Mounting hardware is supplied with the product.



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