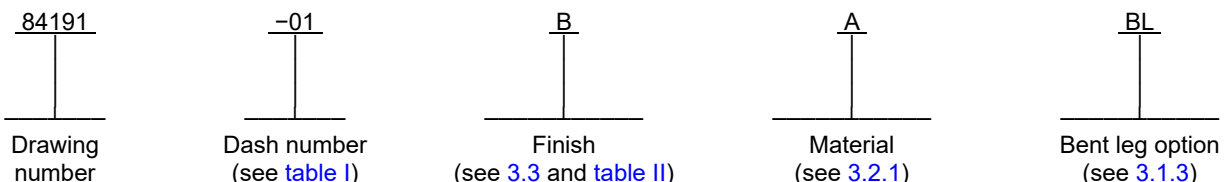


REVISIONS																			
LTR	DESCRIPTION							DATE				APPROVED							
A	Add black anodized parts. Added second source.							8 Jul 1986				Christopher Rauch							
B	Added dash numbers 9 through 24. Added chemical finish option. Editorial changes throughout.							25 Feb 1988				Randy Larson							
C	Added dash numbers 25 through 32. Added SED symbol option. Changed several dimensions. Added note 4. Added dimension "L" to figures 1, 2, 3, and 4. Revised pin types in 3.2. Deleted finish "Y". Changed table I. Editorial changes throughout.							18 Nov 1988				Randy Larson							
D	Added two materials. Added pin length dimension lines. Editorial changes throughout.							30 Mar 1989				Randy Larson							
E	Changed several dimensions. Editorial changes throughout.							22 May 1990				Randy Larson							
F	Changes made in accordance with NOR 5998-R002-92							22 Jul 1992				Randy Larson							
G	PIN structure altered for bent leg, added anodizing for colors and passivation finish, printed wiring board mounting location, and location of SED symbol figure. Updated drawings, document, and editorial changes throughout. Update CAGE CODE to 037Z3.							25 Sep 1995				John F. Raye							
H	Section 2 updated to remove cancelled documents and add the superseding replacements. Added an additional source of supply. Editorial changes throughout.							30 Aug 2002				Thomas M. Hess							
J	Added new sources of supply. Updated drawing format and editorial changes throughout.							24 Mar 2014				Thomas M. Hess							
K	Added new source of supply.							10 May 2014				Thomas M. Hess							
L	Change status to inactivate for new design for all PINs.							30 Nov 2021				Muhammad Akbar							
CURRENT DESIGN ACTIVITY CAGE CODE 037Z3 DEFENSE LOGISTICS AGENCY DLA LAND AND MARITIME, COLUMBUS, OHIO 43218-3990 <u>Notice of Inactivation for New Design</u> PINs -01 through -08 and -25 through -34 are INACTIVE FOR NEW DESIGN after 24 June 2014 PINs -09 through -24 and -35 through -40 are INACTIVE FOR NEW DESIGN after Day Month 2021 FOR NEW DESIGN USE CID A-A-59832 (see 6.5) 																			
Prepared in accordance with ASME Y14.100										Source control drawing									
REV	L	L	L	L	L	L	L												
PAGE	16	17	18	19	20	21	22												
REV STATUS OF PAGES	REV		L	L	L	L	L	L	L	L	L	L	L	L	L	L	L		
	PAGE		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
PMIC N/A			PREPARED BY Christopher A Rauch					DESIGN ACTIVITY DEFENSE ELECTRONICS SUPPLY CENTER, DAYTON, OH 45444-5000											
Original date of drawing 17 April 1985			CHECKED BY Randy Larson					TITLE EXTRACTOR, ELECTRICAL CARD, METAL											
			APPROVED BY Ivan Jones																
			SIZE A	CAGE CODE 14933				DWG. NO. 84191											
			REV		L			PAGE		1		OF		22					

1. SCOPE

1.1 Scope. This drawing describes the requirements for a family of metal extractors intended to aid in removing circuit card assemblies or printed wiring assemblies from their installed positions.

1.2 Part or Identifying Number (PIN). The complete PIN shall be as follows:



NOTE: Select extractor configuration (dash number), finish, material, and options from the above paragraph as shown on [figures 1](#) through [7](#) and in the following examples:

Example 1: 84191-347A (DESC drawing 84191 extractor, electrical card, metal with the following selections; angled handle without locking tab ([figure 2](#)), 5/16 (.165 mm) thick boards, mounting pin length is .312 (7.93 mm) inches long, right hand, has purple anodized finish, made from .063 (1.60 mm) thick aluminum alloy in accordance with [ASTM B209](#), and does not have bent leg ([figure 2](#), right hand).

Example 2: 84191-37ETBL (DESC drawing 84191 extractor, electrical card, metal with the following selections; straight handle with locking tab ([figure 4](#)), 5/16 (.165 mm) thick boards, mounting pin length is .312 (7.93 mm) inches long, left hand, has gold chemical film finish with ESD symbol, made from .063 (1.60 mm) thick aluminum alloy in accordance with [ASTM B221](#), and has bent leg ([figure 6](#), left hand).

2. APPLICABLE DOCUMENTS

2.1 General. The documents listed in this section are specified in sections [3](#) and [4](#) of this specification. This section does not include documents cited in other sections of this specification or recommended for additional information or as examples. While every effort has been made to ensure the completeness of this list, document users are cautioned that they must meet all specified requirements of documents cited in sections [3](#) and [4](#) of this specification, whether or not they are listed.

2.2 Government documents.

2.2.1 Specifications, standards, and handbooks. The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those cited in the solicitation or contract (see [6.2](#)).

SPECIFICATIONS

DEPARTMENT OF DEFENSE

MIL-DTL-5002	-	Surface Treatments and Inorganic Coatings for Metal Surfaces of Weapon Systems.
MIL-DTL-5541	-	Chemical Conversion Coatings On Aluminum And Aluminum Alloys.
MIL-A-8625	-	Anodic Coatings For Aluminum And Aluminum Alloys.

STANDARDS

DEPARTMENT OF DEFENSE

MIL-STD-130	-	Identification Marking Of U.S. Military Property.
MIL-STD-1285	-	Marking of Electrical and Electronic Parts.

(Copies of these documents are available online at <https://quicksearch.dla.mil>.)

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2.3 Non-Government publications. The following documents form a part of this document to the extent specified herein. Unless otherwise specified, the issues of the documents are those cited in the solicitation or contract (see 6.2).

ASTM INTERNATIONAL (ASTM)

- ASTM A666 - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.
- ASTM B209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
- ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles and Tubes.

(Copies of these documents are available online at <http://www.astm.org>.)

SAE INTERNATIONAL (SAE)

- SAE AMS2700 - Passivation of Corrosion Resistant Steels.

(Copies of these documents are available online at <http://www.sae.org>.)

(Non-Government standards and other publications are normally available from the organizations which prepare or which distribute the documents. These documents also may be available in or through libraries or other informational services.)

2.4 Order of precedence. Unless otherwise noted herein or in the contract, in the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3. REQUIREMENTS

3.1 Interface and physical dimensions. See [table I](#) and [figures 1](#) through [7](#).

3.1.1 Extractor orientation with board. See [figure 1](#).

3.1.2 Standard straight leg configuration. The straight leg extractor configuration (standard) shall be as illustrated in [figures 1](#) through [5](#). Extractors in the standard straight leg configuration will be blank in the suffix digit in the PIN, see [1.2](#).

3.1.3 Optional bent leg configuration. The bent leg extractor configuration (optional) is available for all dash numbers. The bent leg option shall be as illustrated in [figure 6](#). Extractors with the bent leg configuration option shall include the suffix "BL" in the PIN, see [1.2](#).

3.1.4 Circuit card mounting location. Circuit card assembly mounting location, see [figure 7](#).

3.2 Materials.

3.2.1 Extractor. The extractor shall be fabricated from one of the materials listed below. The material shall be as specified in the PIN, see [1.2](#).

PIN designator	Material
A	Aluminum alloy 5052-H32, .063 inch (1.60 mm) thick in accordance with ASTM B209 .
S	Stainless steel, type 301 or type 304 in accordance with ASTM A666 .
T	Aluminum alloy 6061-T6, .063 inch (1.60 mm) thick in accordance with ASTM B221 .

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3.2.2 Mounting pin. Mounting pin shall be made of stainless steel (CRES 302).

3.3 Finish options. Finish option materials shall be as specified in [table II](#); however, when a definite material is not specified, a material shall be used which will enable the metal extractors for use with circuit card assemblies or printed circuit boards to meet the performance requirements of this drawing. Finish option materials designator from table II shall be included in the PIN.

3.3.1 Anodize. Anodize plate finish shall be in accordance with [MIL-A-8625](#), type II, class 2. Anodize plated finish parts shall include a suffix in the PIN, see [1.2](#) and [table II](#).

3.3.1.1 Black anodize. Black anodize plated finish shall include a suffix "B" in the PIN, see [1.2](#) and [table II](#).

3.3.1.2 Red anodize. Red anodize plated finish shall include a suffix "1" in the PIN, see [1.2](#) and [table II](#).

3.3.1.3 Blue anodize. Blue anodize plated finish shall include a suffix "2" in the PIN, see [1.2](#) and [table II](#).

3.3.1.4 Green anodize. Green anodize plated finish shall include a suffix "3" in the PIN, see [1.2](#) and [table II](#).

3.3.1.5 Yellow anodize. Yellow anodize plated finish shall include a suffix "4" in the PIN, see [1.2](#) and [table II](#).

3.3.1.6 Orange anodize. Orange anodize plated finish shall include a suffix "6" in the PIN, see [1.2](#) and [table II](#).

3.3.1.7 Purple anodize. Purple anodize plated finish shall include a suffix "7" in the PIN, see [1.2](#) and [table II](#).

3.3.1.8 Gray anodize. Gray anodize plated finish shall include a suffix "8" in the PIN, see [1.2](#) and [table II](#).

3.3.1.9 Brown anodize. Brown anodize plated finish shall include a suffix "9" in the PIN, see [1.2](#) and [table II](#).

3.3.1.10 Clear anodize. Clear anodize plated finish shall include a suffix "0" in the PIN, see [1.2](#) and [table II](#).

3.3.2 Chemical film (gold). Chemical film (gold) plate finish shall be in accordance with [MIL-DTL-5541](#), class 1A. Chemical film (gold) plated finish parts shall include a suffix "C" in the PIN, see [1.2](#) and [table II](#). Note: Finish "C" is identical to yellow chromate.

3.3.3 Chemical film (gold) with optional SED symbol. Chemical film (gold) with optional SED symbol plate finish shall be in accordance with [MIL-DTL-5541](#), class 1A. Chemical film (gold) plated finish parts shall include a suffix "E" in the PIN, see [1.2](#) and [table II](#). See marking requirements for SED symbol (see 3.7.1 and [figure 8](#)).

3.3.4 Passivation (cleaning). Passivation cleaning of stainless steel shall be in accordance with [SAE AMS2700](#). Passivation finish parts shall include a suffix "P" in the PIN, see [1.2](#) and [table II](#).

3.4 Mounting pin. All parts shall be supplied with one mounting pin. Mounting pin may be rolled spring or spiral type. Chamfered corners of the mounting pin are optional.

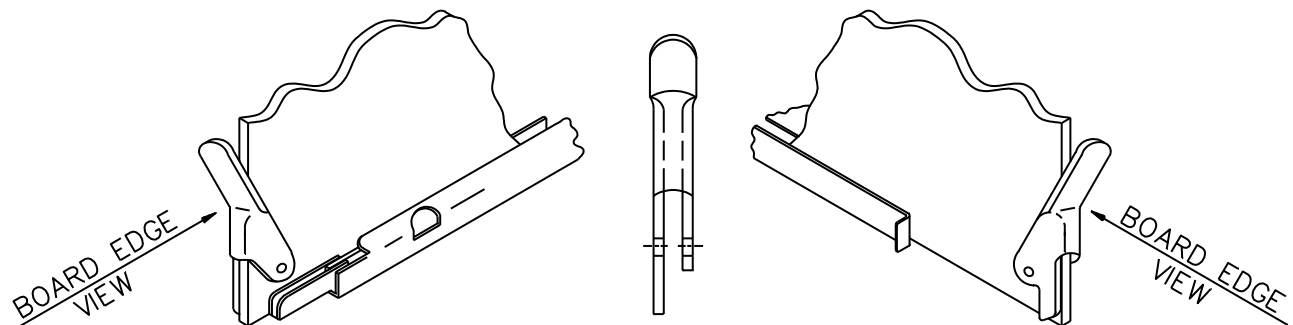
3.5 Certificate of compliance. A certificate of compliance shall be required from a manufacturer in order to be listed as an approved source of supply in [6.8](#). The certificate of compliance submitted to DLA Land and Maritime VAC, prior to listing as an suggested source of supply in [6.8](#), shall state that the manufacturer's product meets the requirements herein.

3.6 Optional statement of compliance in lieu of performing conformance inspections. The acquiring activity, at its discretion, may accept from the manufacturer a statement of compliance in lieu of the manufacturer performing the inspection of product for delivery tests (see [4.2.2](#) and [6.2.b](#)).

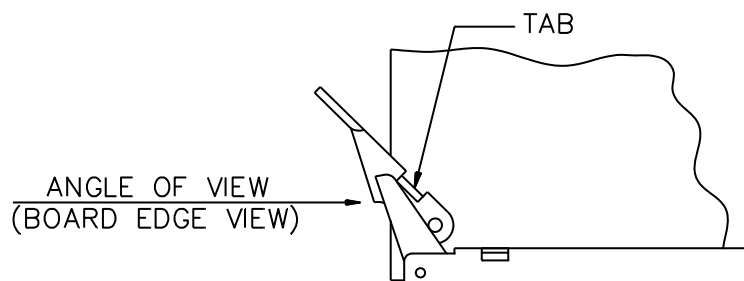
3.7 Marking. Marking of the extractor is not required; however, each unit package shall be marked in accordance with [MIL-STD-1285](#) and include the PIN as specified herein (see [1.2](#)), the manufacturer's name or Commercial and Government Entity (CAGE) code, and date lot codes.

3.7.1 Sensitive Electronic Device (SED) symbol. Extractors with finish "E" shall be marked on the handle with the SED symbol in accordance with [MIL-STD-130](#). The SED symbol shall be permanently marked in black. The SED symbol diameter shall be .130 ±.010 inch (3.30 ± 0.25 mm), see [figure 8](#).

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VIEW OF RIGHT HAND EXTRACTOR FROM BOTH SIDES OF BOARD



VIEW OF RIGHT HAND EXTRACTOR WITH TAB RELEASE

NOTE:

1. Retainer must be in the unlocked position before extractor may be used.

FIGURE 1. Extractor orientation with board.

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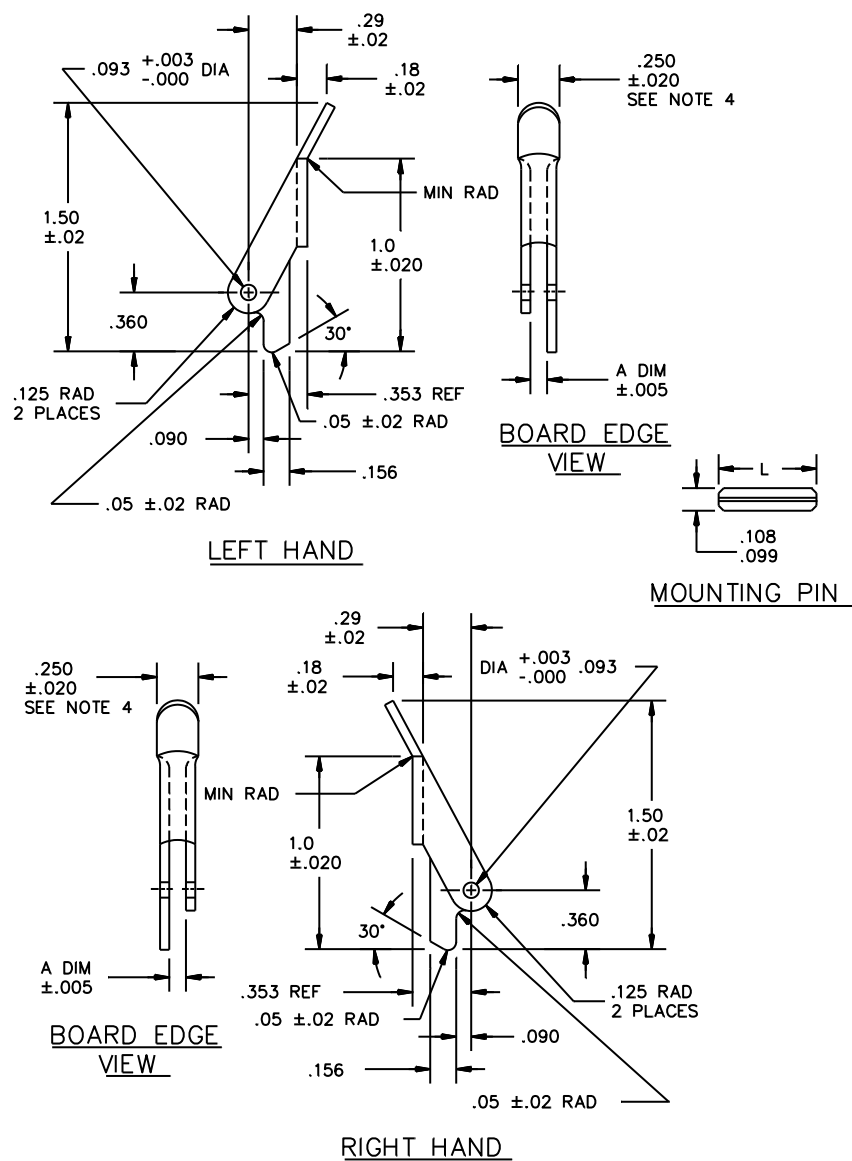
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Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
.001	0.03	.006	0.15	.090	2.29	.108	2.74	.180	4.60	.353	8.97
.003	0.08	.020	0.51	.093	2.36	.125	3.18	.250	6.35	.360	9.14
.005	0.13	.050	1.27	.099	2.51	.156	3.96	.290	7.40	1.000	25.40
										1.500	38.10

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are .010 inch (0.25 mm).
4. Width dimension shall be .290 $\pm$.020 inch (7.37 mm $\pm$ 0.51 mm) when board width dimension A increases to .142 inch (3.61 mm) or .165 inch (4.19 mm), see [table I](#).

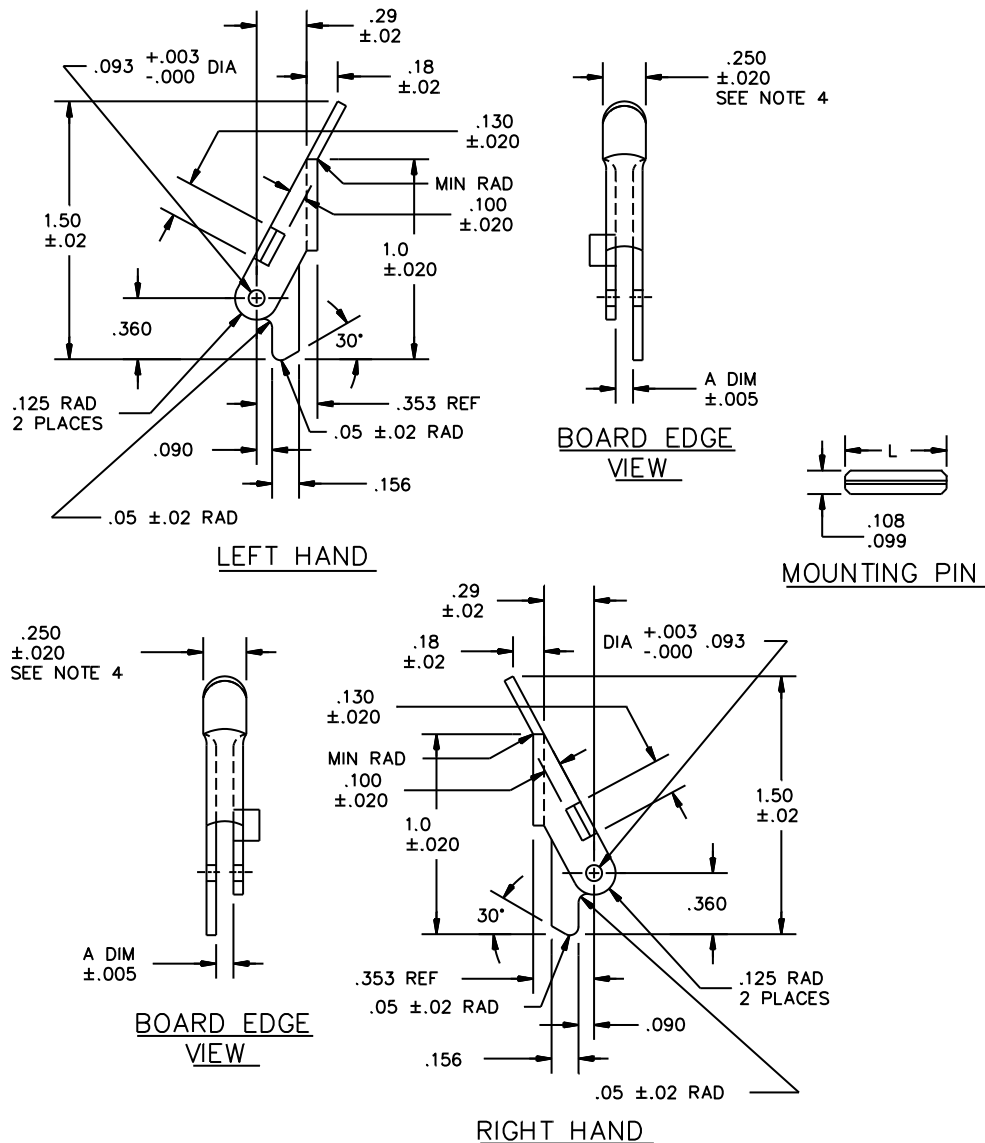
FIGURE 2. Angled handle, without locking tab (dash numbers 01 through 08, 33 and 34).

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Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
.003	0.08	.050	1.27	.099	2.51	.125	3.18	.180	4.60	.353	8.97
.005	0.13	.090	2.29	.100	2.54	.130	3.30	.250	6.35	.360	9.14
.020	0.51	.093	2.36	.108	2.74	.156	3.96	.290	7.40	1.000	25.40
										1.500	38.10

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are .010 inch (0.25 mm).
4. Width dimension shall be .290 $\pm$.020 inch (7.37 mm $\pm$ 0.51 mm) when board width dimension A increases to .142 inch (3.61 mm) or .165 inch (4.19 mm), see [table I](#).

FIGURE 3. Angled handle, with locking tab (dash numbers 09 through 16, 35 and 36).

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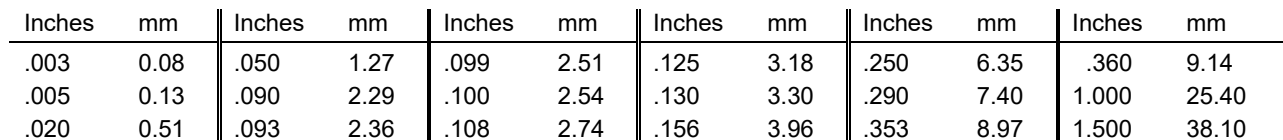
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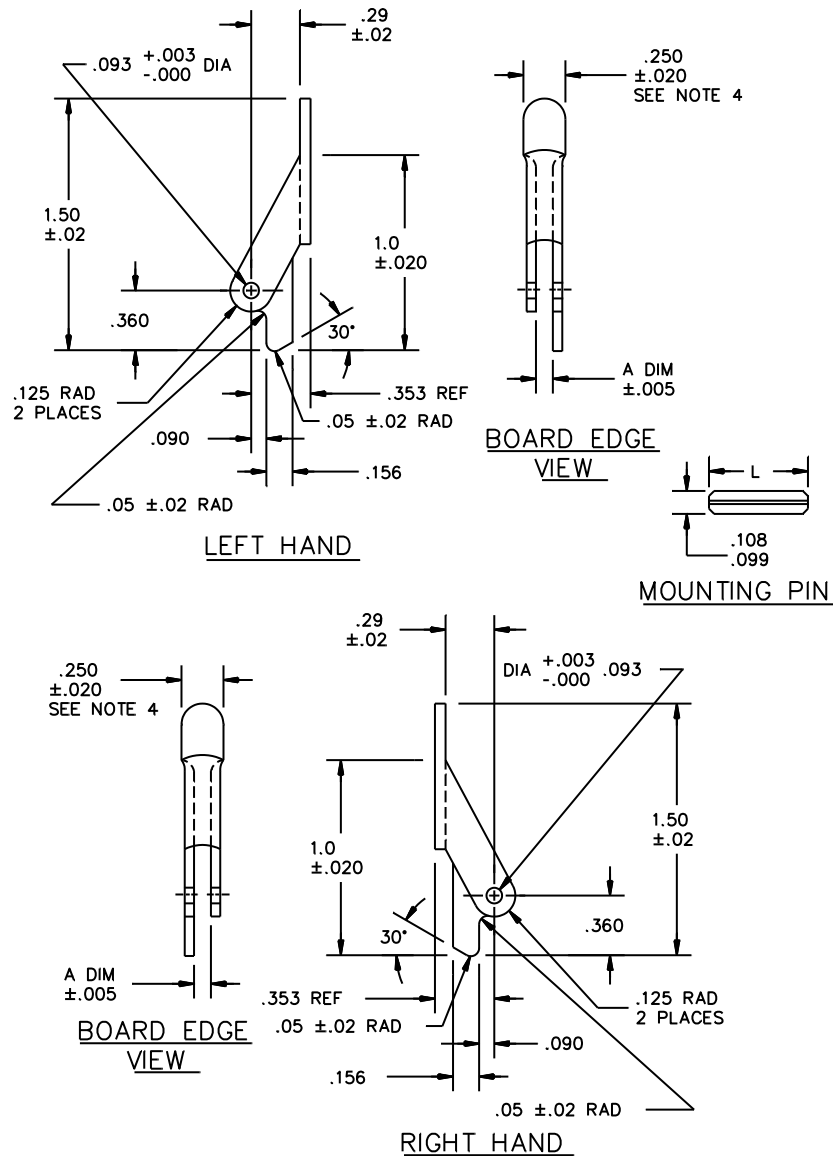
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Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
.003	0.08	.050	1.27	.099	2.51	.125	3.18	.250	6.35	.360	9.14
.005	0.13	.090	2.29	.100	2.54	.130	3.30	.290	7.40	1.000	25.40
.020	0.51	.093	2.36	.108	2.74	.156	3.96	.353	8.97	1.500	38.10

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are .010 inch (0.25 mm).
4. Width dimension shall be $.290 \pm .020$ inch ($7.37 \text{ mm} \pm 0.51 \text{ mm}$) when board width dimension A increases to .142 inch (3.61 mm) or .165 inch (4.19 mm), see [table I](#).

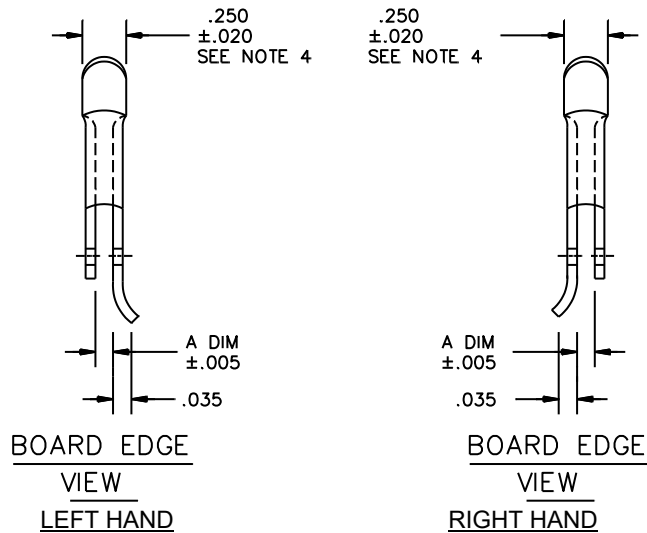
FIGURE 5. Straight handle, without locking tab (dash numbers 25 through 32, 39 and 40).

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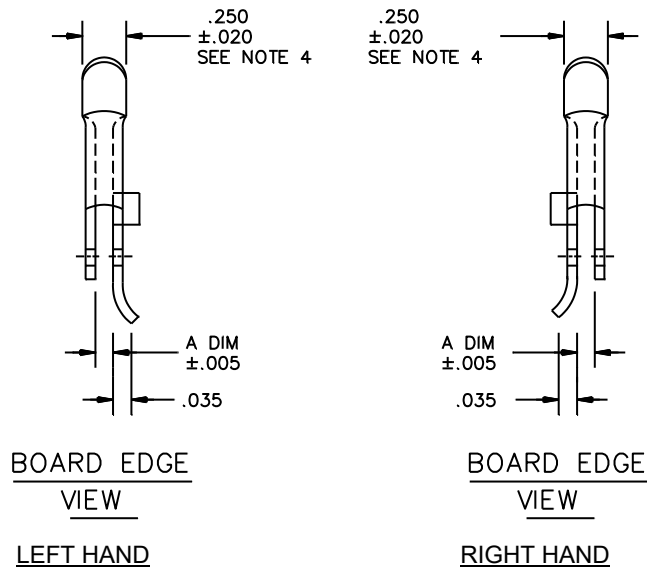
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Bent leg (option BL) without tabs, figures 2 and 5.



Bent leg (option BL) with tabs, figures 3 and 4.

Inches	mm	Inches	mm	Inches	mm	Inches	mm
.005	0.13	.020	0.51	.035	0.89	.250	6.35

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are .010 inch (0.25 mm).
4. Width dimension shall be .290 ± .020 inch (7.37 mm ± 0.51 mm) when board width dimension A increases to .142 inch (3.61 mm) or .165 inch (4.19 mm), see [table I](#).
5. Bent leg (option BL) is available for all configurations, figures 1 through 5. Bent leg option shall include a suffix "BL" in the PIN, see [1.2](#), [3.1.3](#) and [table I](#).

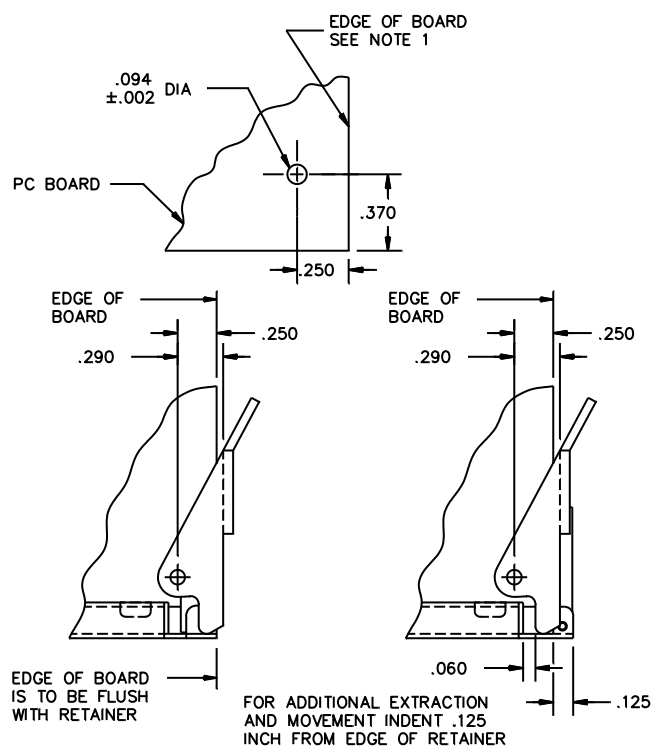
FIGURE 6. Bent leg (option BL) configurations.

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VIEW OF RIGHT HAND EXTRACTOR WITH BOARD MOUNTING INFORMATION

Inches	mm	Inches	mm	Inches	mm	Inches	mm
.002	0.05	.094	2.38	.250	6.35	.370	9.40
.060	1.52	.125	3.18	.290	7.37		

NOTES:

1. Edge of printed board is to be flush with end of extractor and retainer or indent .12 inch (3.05 mm) inch from edge of retainer for more extraction and movement.
2. Dimensions are in inches. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are .02 inch (0.5 mm).

Figure 7. Circuit card mounting location.

TABLE I. Design and dimensions.

PIN designation	Dimension "A"		Dimension "L"		Configuration L = left hand R = right hand	Figure
84191- <u>1/</u>	<u>2/</u>					
Angled handle, without locking tabs: <u>3/</u>						
	<u>Inches</u>	<u>mm</u>	<u>Inches</u>	<u>mm</u>		
01* <u>@##</u>	.040	(1.02)	.188	(4.78)	L	2
02* <u>@##</u>	.040	(1.02)	.188	(4.78)	R	2
03* <u>@##</u>	.075	(1.91)	.188	(4.78)	L	2
04* <u>@##</u>	.075	(1.91)	.188	(4.78)	R	2
05* <u>@##</u>	.105	(2.67)	.250	(6.35)	L	2
06* <u>@##</u>	.105	(2.67)	.250	(6.35)	R	2
07* <u>@##</u>	.142	(3.61)	.250	(6.35)	L	2
08* <u>@##</u>	.142	(3.61)	.250	(6.35)	R	2

See footnotes at end of table.

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TABLE I. Design and dimensions. – Continued.

PIN designation	Dimension "A"		Dimension "L"		Configuration L = left hand R = right hand	Figure
84191- 1/	2/					
Angled handle, with locking tab:						
	<u>Inches</u>	<u>mm</u>	<u>Inches</u>	<u>mm</u>		
09* <u>@##</u>	.040	(1.02)	.188	(4.78)	L	3
10* <u>@##</u>	.040	(1.02)	.188	(4.78)	R	3
11* <u>@##</u>	.075	(1.91)	.188	(4.78)	L	3
12* <u>@##</u>	.075	(1.91)	.188	(4.78)	R	3
13* <u>@##</u>	.105	(2.67)	.250	(6.35)	L	3
14* <u>@##</u>	.105	(2.67)	.250	(6.35)	R	3
15* <u>@##</u>	.142	(3.61)	.250	(6.35)	L	3
16* <u>@##</u>	.142	(3.61)	.250	(6.35)	R	3
Straight handle, with locking tab:						
	<u>Inches</u>	<u>mm</u>	<u>Inches</u>	<u>mm</u>		
17* <u>@##</u>	.040	(1.02)	.188	(4.78)	L	4
18* <u>@##</u>	.040	(1.02)	.188	(4.78)	R	4
19* <u>@##</u>	.075	(1.91)	.188	(4.78)	L	4
20* <u>@##</u>	.075	(1.91)	.188	(4.78)	R	4
21* <u>@##</u>	.105	(2.67)	.250	(6.35)	L	4
22* <u>@##</u>	.105	(2.67)	.250	(6.35)	R	4
23* <u>@##</u>	.142	(3.61)	.250	(6.35)	L	4
24* <u>@##</u>	.142	(3.61)	.250	(6.35)	R	4
Straight handle, without locking tab: 3/						
	<u>Inches</u>	<u>mm</u>	<u>Inches</u>	<u>mm</u>		
25* <u>@##</u>	.040	(1.02)	.188	(4.78)	L	5
26* <u>@##</u>	.040	(1.02)	.188	(4.78)	R	5
27* <u>@##</u>	.075	(1.91)	.188	(4.78)	L	5
28* <u>@##</u>	.075	(1.91)	.188	(4.78)	R	5
29* <u>@##</u>	.105	(2.67)	.250	(6.35)	L	5
30* <u>@##</u>	.105	(2.67)	.250	(6.35)	R	5
31* <u>@##</u>	.142	(3.61)	.250	(6.35)	L	5
32* <u>@##</u>	.142	(3.61)	.250	(6.35)	R	5
Angled handle, without locking tabs: 3/						
	<u>Inches</u>	<u>mm</u>	<u>Inches</u>	<u>mm</u>		
33* <u>@##</u>	.165	(4.19)	.312	(7.92)	L	2
34* <u>@##</u>	.165	(4.19)	.312	(7.92)	R	2
Angled handle, with locking tab:						
	<u>Inches</u>	<u>mm</u>	<u>Inches</u>	<u>mm</u>		
35* <u>@##</u>	.165	(4.19)	.312	(7.92)	L	3
36* <u>@##</u>	.165	(4.19)	.312	(7.92)	R	3
Straight handle, with locking tab:						
	<u>Inches</u>	<u>mm</u>	<u>Inches</u>	<u>mm</u>		
37* <u>@##</u>	.165	(4.19)	.312	(7.92)	L	4
38* <u>@##</u>	.165	(4.19)	.312	(7.92)	R	4
Straight handle, without locking tab:						
	<u>Inches</u>	<u>mm</u>	<u>Inches</u>	<u>mm</u>		
39* <u>@##</u>	.165	(4.19)	.312	(7.92)	L	5
40* <u>@##</u>	.165	(4.19)	.312	(7.92)	R	5

1/ Asterisk (*) denotes finish (see 3.3). Ampersand (@) denotes material (see 3.2). Pound signs (##) denotes leg configuration for bent leg (option BL, when used, see 3.1.3).

2/ Dimension "A" denotes the slot width to accommodate the various thickness of circuit cards.

3/ Inactive for new design. For new design use CID specification sheets identified in 6.5.

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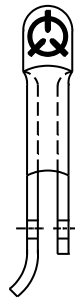
TABLE II. Metal extractors finishes.

PIN finish designator	Finish	Plating requirement	Paragraph
C <u>1/</u>	Chemical film (gold)	MIL-DTL-5541, class 1A	3.3.2
E <u>2/</u>	Chemical film (gold)	MIL-DTL-5541, class 1A	3.3.3
P	Passivate	SAE AMS2700	3.3.4
<u>3/</u>	Anodize	MIL-A-8625, type II, class 2	3.3.1
B	Black anodize	MIL-A-8625, type II, class 2	3.3.1.1
1	Red anodize	MIL-A-8625, type II, class 2	3.3.1.2
2	Blue anodize	MIL-A-8625, type II, class 2	3.3.1.3
3	Green anodize	MIL-A-8625, type II, class 2	3.3.1.4
4	Yellow anodize	MIL-A-8625, type II, class 2	3.3.1.5
6	Orange anodize	MIL-A-8625, type II, class 2	3.3.1.6
7	Purple anodize	MIL-A-8625, type II, class 2	3.3.1.7
8	Gray anodize	MIL-A-8625, type II, class 2	3.3.1.8
9	Brown anodize	MIL-A-8625, type II, class 2	3.3.1.9
0	Clear anodize	MIL-A-8625, type II, class 2	3.3.1.10

1/ Finish C is identical to yellow chromate.

2/ With Sensitive Electronic Device (SED) symbol (see 3.7.1).

3/ PIN finish designator 5 is not used.



BOARD EDGE
VIEW

VIEW OF RIGHT HAND EXTRACTOR WITH SED SYMBOL

NOTES:

1. SED symbol shall be located approximately as shown, see 3.7.1.
2. Symbol shall be permanently marked in black in accordance with MIL-STD-130.
3. Diameter shall be $.130 \pm .010$ inches (3.30 ± 0.25 mm).

Figure 8. Right hand extractor with SED symbol mounting location.

3.8 Recycled, recovered, or environmentally preferable materials. Recycled, recovered, or environmentally preferable materials should be used to the maximum extent possible provided that the material meets or exceeds the operational and maintenance requirements, and promotes economically advantageous life cycle costs.

3.9 Workmanship. Extractors shall be processed in such a manner as to be uniform in quality and shall be free from surface and finish flaws that could affect life or serviceability. Burrs, chipping, and cracking are unacceptable.

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4. VERIFICATION

4.1 Sampling and inspection. Unless otherwise specified in the contract or order, the contractor is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract, the contractor may use their own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in this drawing where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements.

4.2 Conformance inspections.

4.2.1 Inspection of product for delivery. Inspection of product for delivery shall consist of visual and mechanical inspections of interface and physical dimensions (see 3.1), materials (see 3.2), finish (see 3.3), and workmanship (see 3.8). Criteria for defects are listed in 4.2.1.3.

4.2.1.1 Sampling plan. A sample of parts shall be randomly selected in accordance with table II, normal sampling. If one or more defects are found, the lot shall be rejected. Criteria for defects are listed in 4.2.1.3.

TABLE III. Sampling plan.

Lot size	Normal	Tightened
2 to 25	3	5
26 to 50	5	6
51 to 90	6	7
91 to 150	7	11
151 to 280	10	13
281 to 500	11	16
501 to 1,200	15	19
1,201 to 3,200	18	23
3,201 to 10,000	22	29
10,001 and over	29	35

4.2.1.2 Rejected lots. If an inspection lot is rejected after normal sampling inspection, the manufacturer may rework it to correct the defects, or screen out the defective parts and resubmit for inspection. Resubmitted lots shall be inspected by selecting a random sample of parts in accordance with table II, tightened sampling. If one or more defects are found in this sample, the lot shall be rejected and shall not be supplied to this specification. Resubmitted lots which are acceptable shall be clearly identified as reinspected lots.

4.2.1.3 Defective characteristics and properties. Dimensional characteristics are considered defective when out of tolerance. Physical and functional properties are considered defective when outside the specified minimum, maximum, or range as applicable. Workmanship characteristics are considered defective when they would be detrimental to the intended use, performance requirements, or environmental survival of the part.

4.2.2 Optional statement of compliance. The acquiring activity, at its discretion, may accept a statement of compliance in lieu of the manufacturer performing the inspection of product for delivery (see 6.2.b).

5. PACKAGING

5.1 Packaging. For acquisition purposes, the packaging requirements shall be as specified in the contract or order (see 6.2). When actual packaging of materiel is to be performed by DoD personnel, these personnel need to contact the responsible packaging activity to ascertain requisite packaging requirements. Packaging requirements are maintained by the Inventory Control Point's packaging activity within the Military Department or Defense Agency, or within the Military Department's System Command. Packaging data retrieval is available from the managing Military Department's or Defense Agency's automated packaging files, CD-ROM products, or by contacting the responsible packaging activity.

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6. NOTES

(This section contains information of a general or explanatory nature which may be helpful, but is not mandatory.)

6.1 Intended use. Extractors conforming to this drawing are intended for use when performance specifications do not exist and qualified military devices that will perform the required function are not available for OEM application.

6.2 Acquisition requirements. The acquisition requirements should specify the following:

- a. Complete PIN (see 1.2).
- b. Requirements for delivery of one copy of the conformance inspection data or certificate of compliance that parts have passed conformance inspection with each shipment of parts by the manufacturer.
- c. Whether the manufacturer performs the product for delivery inspection (4.2.1) or provides an optional statement of compliance (4.2.2).
- d. Requirements for notification of change in product to the contracting activity, if applicable.
- e. Requirements for packaging and packing.

6.3 Users of record. Coordination of this document for future revisions are coordinated only with the approved of supply and the users of record of this document. Requests to be added as a recorded user of this drawing should be to: DLA Land and Maritime, ATTN: VAC, Post Office Box 3990, Columbus, OH 43216-5000 or by electronic mail at 5998.Documents@dla.mil.

6.4 Replaceability. Extractors covered by this drawing replace the same or similar commercial devices covered by contractor prepared specifications or drawings.

6.5 Changes from previous issue. Asterisks are not used in this revision to identify changes with respect to the previous revision, due to the extensiveness of the changes.

6.6 Inactive for new design PIN supersession. The inactive for new design part numbers with corresponding for new design use part numbers are listed below.

Superseding (new) part number (1)	Superseded (old) part number (2)	Superseding (new) part number (1)	Superseded (old) part number (2)
AA59832/05L 11&#	84191-01 &T	AA59832/05R 31&#	84191-06 &T
AA59832/05L 12&#	84191-01 &A	AA59832/05R 32&#	84191-06 &A
AA59832/05L 17&#	84191-01 &S	AA59832/05R 37&#	84191-06 &S
AA59832/05R 11&#	84191-02 &T	AA59832/05L 41&#	84191-07 &T
AA59832/05R 12&#	84191-02 &A	AA59832/05L 42&#	84191-07 &A
AA59832/05R 17&#	84191-02 &S	AA59832/05L 47&#	84191-07 &S
AA59832/05L 21&#	84191-03 &T	AA59832/05R 41&#	84191-08 &T
AA59832/05L 22&#	84191-03 &A	AA59832/05R 42&#	84191-08 &A
AA59832/05L 27&#	84191-03 &S	AA59832/05R 47&#	84191-08 &S
AA59832/05R 21&#	84191-04 &T	AA59832/07L 11&#	84191-09 &T
AA59832/05R 22&#	84191-04 &A	AA59832/07L 12&#	84191-09 &A
AA59832/05R 27&#	84191-04 &S	AA59832/07M 11&#	84191-09 &TBL
AA59832/05L 31&#	84191-05 &T	AA59832/07M 12&#	84191-09 &ABL
AA59832/05L 32&#	84191-05 &A		
AA59832/05L 37&#	84191-05 &S		

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Superseding (new) part number (1)	Superseded (old) part number (2)	Superseding (new) part number (1)	Superseded (old) part number (2)
AA59832/07R 11&#	84191-10 &T	AA59832/08R 11&#	84191-20 &T
AA59832/07R 12&#	84191-10 &A	AA59832/08R 12&#	84191-20 &A
AA59832/07Q 11&#	84191-10 &TBL	AA59832/08Q 11&#	84191-20 &TBL
AA59832/07Q 12&#	84191-10 &ABL	AA59832/08Q 12&#	84191-20 &ABL
AA59832/07L 21&#	84191-11 &T	AA59832/08R 42&#	84191-21 &T
AA59832/07L 22&#	84191-11 &A	AA59832/08R 47&#	84191-21 &A
AA59832/07M 21&#	84191-11 &TBL	AA59832/08R 41&#	84191-21 &TBL
AA59832/07M 22&#	84191-11 &ABL	AA59832/08R 42&#	84191-21 &ABL
AA59832/07R 21&#	84191-12 &T	AA59832/08R 47&#	84191-22 &T
AA59832/07R 22&#	84191-12 &A	AA59832/08R 41&#	84191-22 &A
AA59832/07Q 21&#	84191-12 &TBL	AA59832/08R 42&#	84191-22 &TBL
AA59832/07Q 22&#	84191-12 &ABL	AA59832/08R 47&#	84191-22 &ABL
AA59832/07L 31&#	84191-13 &T	AA59832/08L 31&#	84191-23 &T
AA59832/07L 32&#	84191-13 &A	AA59832/08L 32&#	84191-23 &A
AA59832/07M 31&#	84191-13 &TBL	AA59832/08M 31&#	84191-23 &TBL
AA59832/07M 32&#	84191-13 &ABL	AA59832/08M 32&#	84191-23 &ABL
AA59832/07R 31&#	84191-14 &T	AA59832/08R 42&#	84191-24 &T
AA59832/07R 32&#	84191-14 &A	AA59832/08R 47&#	84191-24 &A
AA59832/07Q 31&#	84191-14 &TBL	AA59832/08R 41&#	84191-24 &TBL
AA59832/07Q 32&#	84191-14 &ABL	AA59832/08X 41&#	84191-24 &ABL
AA59832/07L 41&#	84191-15 &T	AA59832/06L 11&#	84191-25 &T
AA59832/07L 42&#	84191-15 &A	AA59832/06L 12&#	84191-25 &A
AA59832/07M 41&#	84191-15 &TBL	AA59832/06L 17&#	84191-25 &S
AA59832/07M 42&#	84191-15 &ABL	AA59832/06R 11&#	84191-26 &T
AA59832/07R 41&#	84191-16 &T	AA59832/06R 12&#	84191-26 &A
AA59832/07R 42&#	84191-16 &A	AA59832/06R 17&#	84191-26 &S
AA59832/07Q 41&#	84191-16 &TBL	AA59832/06L 21&#	84191-27 &T
AA59832/07Q 42&#	84191-16 &ABL	AA59832/06L 22&#	84191-27 &A
AA59832/08L 11&#	84191-17 &T	AA59832/06L 27&#	84191-27 &S
AA59832/08L 12&#	84191-17 &A	AA59832/06R 21&#	84191-28 &T
AA59832/08M 11&#	84191-17 &TBL	AA59832/06R 22&#	84191-28 &A
AA59832/08M 12&#	84191-17 &ABL	AA59832/06R 27&#	84191-28 &S
AA59832/08R 11&#	84191-18 &T	AA59832/06L 31&#	84191-29 &T
AA59832/08R 12&#	84191-18 &A	AA59832/06L 32&#	84191-29 &A
AA59832/08Q 11&#	84191-18 &TBL	AA59832/06L 37&#	84191-29 &S
AA59832/08Q 12&#	84191-18 &ABL	AA59832/06R 31&#	84191-30 &T
AA59832/08L 21&#	84191-19 &T	AA59832/06R 32&#	84191-30 &A
AA59832/08L 22&#	84191-19 &A	AA59832/06R 37&#	84191-30 &S
AA59832/08M 21&#	84191-19 &TBL		
AA59832/08M 22&#	84191-19 &ABL		

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Superseding (new) part number (1)	Superseded (old) part number (2)	Superseding (new) part number (1)	Superseded (old) part number (2)
AA59832/06L 41&#	84191-31 &T	AA59832/07R 51&#	84191-36 &T
AA59832/06L 42&#	84191-31 &A	AA59832/07R 52&#	84191-36 &A
AA59832/06L 47&#	84191-31 &S	AA59832/07Q 51&#	84191-36 &TBL
AA59832/06R 41&#	84191-32 &T	AA59832/07Q 52&#	84191-36 &ABL
AA59832/06R 42&#	84191-32 &A	AA59832/06L 51&#	84191-39 &T
AA59832/06R 47&#	84191-32 &S	AA59832/06L 52&#	84191-39 &A
AA59832/05L 51&#	84191-33 &T	AA59832/06M 51&#	84191-39 &TBL
AA59832/05L 52&#	84191-33 &A	AA59832/06M 52&#	84191-39 &ABL
AA59832/05L 57&#	84191-33 &S	AA59832/06R 51&#	84191-40 &T
AA59832/05R 51&#	84191-34 &T	AA59832/06R 52&#	84191-40 &A
AA59832/05R 52&#	84191-34 &A	AA59832/06Q 51&#	84191-40 &TBL
AA59832/05R 57&#	84191-34 &S	AA59832/06Q 52&#	84191-40 &ABL
AA59832/07L 51&#	84191-35 &T		
AA59832/07L 52&#	84191-35 &A		
AA59832/07M 51&#	84191-35 &TBL		
AA59832/07M 52&#	84191-35 &ABL		

(1) The ampersand (&) placeholder represents the finish and the number sign (#) placeholder represents color.

(2) The ampersand (&) placeholder represents the finish.

6.7 Superseded PINs. The original issue of this drawing PIN did not contain suffixes to designate finish (see 3.3) or material (see 3.2.1). The PINs covering these extractors now shall include a suffix to designate the finish and material (see 1.2, 3.2.1 and 3.3.1).

6.7.1 Finish. The original edition of this drawing covered only yellow chromate parts, which were represented by PIN's without suffix letters. PINs in subsequent revisions included suffix letters to denote various finish options. The yellow chromate finish previously offered has been deleted and superseded by the gold chemical film finish. Since these two finishes are identical, it is not practical to retain both in this drawing. The PINs covering these card holders now shall include a suffix "C" to designate the chemical film finish (see 1.2 and 3.3.1).

6.7.2 Material. The original edition of this drawing covered parts made only of aluminum alloy in accordance with QQ-A-250/8 and no specific PIN identifier for material was required. PINs in subsequent revisions include suffix letters to denote various material options (see 1.2 and 3.2.1).

TABLE IV. Supersession information. 1/

Superseding DESC Drawing PIN	Superseded PIN specified within:	Superseded PIN specified within
	84191A, 8 July 1986, 84191B, 25 February 1988, 84191C, 18 November 1988.	84191, 17 Apr 1985
84191-**CA	84191-**C	84191-**
84191-**BA	84191-**B	

1/ The asterisk (*) are used to denote the dash numbers which did not change.

6.8 Approved sources of supply. Approved sources of supply are listed herein. Additional sources will be added as they become available. The vendors listed herein has agreed with this drawing and have submitted a certificate of compliance (see 3.4 herein) to DLA Land and Maritime, ATTN: VAC, Post Office Box 3990, Columbus, OH 43218-3990 or by electronic mail at "5998.Documents@dla.mil" or by facsimile (614) 692-6939 or DSN 850-6939.

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PIN 84191- (1) (2)	Vendor similar designation or type number (3) (4)				Vendor CAGE	Vendor name, address and contact information
	Anodize (5) (6)	Finish "C" (5) (7)	Finish "E" (5) (7)	Finish "P" (8)		
01*@@#	1109A-1LBA	1109A-1LCG	1109A-1LCGE	1129A-1L	5BG68	American Circuit Card Retainers, Inc. 2310 E. Orangethorpe Avenue Anaheim, CA 92806-1231 Telephone: (714) 738-6194 Facsimile: (714) 446-0119 E-mail: sales@accrmfg.com URL: www.accrmfg.com
02*@@#	1109A-1RBA	1109A-1RCG	1109A-1RCGE	1129A-1R		
03*@@#	1109A-2LBA	1109A-2LCG	1109A-2LCGE	1129A-2L		
04*@@#	1109A-2RBA	1109A-2RCG	1109A-2RCGE	1129A-2R		
05*@@#	1109A-3LBA	1109A-3LCG	1109A-3LCGE	1129A-3L		
06*@@#	1109A-3RLA	1109A-3RCG	1109A-3RCGE	1129A-3R		
07*@@#	1109A-4LBA	1109A-4LCG	1109A-4LCGE	1129A-4L		
08*@@#	1109A-4RBA	1109A-4RCG	1109A-4RCGE	1129A-4R		
09*@@#	1109A-1LBAT	1109A-1LCGT	1109A-1LCGTE	1129A-1LT		
10*@@#	1109A-1RBAT	1109A-1RCGT	1109A-1RCGTE	1129A-1RT		
11*@@#	1109A-2LBAT	1109A-2LCGT	1109A-2LCGTE	1129A-2LT		
12*@@#	1109A-2RBAT	1109A-2RCGT	1109A-2RCGTE	1129A-2RT		
13*@@#	1109A-3LBAT	1109A-3LCGT	1109A-3LCGTE	1129A-3LT		
14*@@#	1109A-3RBAT	1109A-3RCGT	1109A-3RCGTE	1129A-3RT		
15*@@#	1109A-4LBAT	1109A-4LCGT	1109A-4LCGTE	1129A-4LT		
16*@@#	1109A-4RBAT	1109A-4RCGT	1109A-4RCGTE	1129A-4RT		
17*@@#	1109S-1LBAT	1109S-1LCGT	1109S-1LCGTE	1129S-1LT		
18*@@#	1109S-1RBAT	1109S-1RCGT	1109S-1RCGTE	1129S-1RT		
19*@@#	1109S-2LBAT	1109S-2LCGT	1109S-2LCGTE	1129S-2LT		
20*@@#	1109S-2RBAT	1109S-2RCGT	1109S-2RCGTE	1129S-2RT		
21*@@#	1109S-3LBAT	1109S-3LCGT	1109S-3LCGTE	1129S-3LT		
22*@@#	1109S-3RBAT	1109S-3RCGT	1109S-3RCGTE	1129S-3RT		
23*@@#	1109S-4LBAT	1109S-4LCGT	1109S-4LCGTE	1129S-4LT		
24*@@#	1109S-4RBAT	1109S-4RCGT	1109S-4RCGTE	1129S-4RT		
25*@@#	1109S-1LBA	1109S-1LCG	1109S-1LCGE	1129S-1L		
26*@@#	1109S-1RBA	1109S-1RCG	1109S-1RCGE	1129S-1R		
27*@@#	1109S-2LBA	1109S-2LCG	1109S-2LCGE	1129S-2L		
28*@@#	1109S-2RBA	1109S-2RCG	1109S-2RCGE	1129S-2R		
29*@@#	1109S-3LBA	1109S-3LCG	1109S-3LCGE	1129S-3L		
30*@@#	1109S-3RBA	1109S-3RCG	1109S-3RCGE	1129S-3R		
31*@@#	1109S-4LBA	1109S-4LCG	1109S-4LCGE	1129S-4L		
32*@@#	1109S-4RBA	1109S-4RCG	1109S-4RCGE	1129S-4R		
33*@@#	1109A-5LBA	1109A-5LCG	1109A-5LCGE	1129A-5L		
34*@@#	1109A-5RBA	1109A-5RCG	1109A-5RCGE	1129A-5R		
35*@@#	1109A-5LBAT	1109A-5LCGT	1109A-5LCGTE	1129A-5LT		
36*@@#	1109A-5RBAT	1109A-5RCGT	1109A-5RCGTE	1129A-5RT		
37*@@#	1109S-5LBAT	1109S-5LCGT	1109S-5LCGTE	1129S-5LT		
38*@@#	1109S-5RBAT	1109S-5RCGT	1109S-5RCGTE	1129S-5RT		
39*@@#	1109S-5LBA	1109S-5LCG	1109S-5LCGE	1129S-5L		
40*@@#	1109SA-5RBA	1109S-5RCG	1109S-5RCGE	1129S-5R		

- (1) Parts must be purchased to this DESC PIN to assure that all performance requirements and inspections are met.
- (2) The asterisk (*) denotes finish (see 3.3), the ampersand (@) denotes material (see 3.2), and the number sign (##) denotes leg configuration (option BL, see 3.1.3).
- (3) Do not use vendor PIN's for acquisition. Items acquired to this number may not satisfy the performance requirements of this drawing.
- (4) CAGE 5BG68 ejectors are supplied unassembled.
- (5) CAGE 5BG68 part numbers shown above indicate parts made of aluminum alloy 5052-H32 (material option "A" of 3.2.1). For parts made of aluminum alloy 6061-T6 (material option "T" of 3.2.1), substitute "1119" for "1109" (example "1119A-2LBA").
- (6) Part number shown are black anodize. CAGE 5BG68 part series 1109 and 1119 are available in other anodize colors (see 3.3.1).
- (7) Part number shown are gold chemical film (finish "C", see 3.3.2) or gold chemical film with optional SED symbol (finish "E", see 3.3.3).
- (8) CAGE 5BG68 part numbers shown are made of material option "S" (stainless steel).

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PIN 84191- (1) (2)	Vendor similar designation or type number (3) (4)				Vendor CAGE	Vendor name, address and contact information
	Finish "B"	Finish "C"	Finish "E"	Finish "P" (5)		
01*@## 02*@## 03*@## 04*@## 05*@## 06*@## 07*@## 08*@##	71-1072-1-L 71-1072-1-R 71-1072-2-L 71-1072-2-R 71-1072-3-L 71-1072-3-R 71-1072-4-L 71-1072-4-R	71-1-L 71-1-R 71-2-L 71-2-R 71-3-L 71-3-R 71-4-L 71-4-R	71-1076-1-L 71-1076-1-R 71-1076-2-L 71-1076-2-R 71-1076-3-L 71-1076-3-R 71-1076-4-L 71-1076-4-R	 71CR-1112-2-L 71CR-1112-2-R 	61081 <	

- (1) Parts must be purchased to this DESC PIN to assure that all performance requirements and inspections are met.
- (2) The asterisk (*) denotes finish (see 3.3), the ampersand (@) denotes material (see 3.2), and the number sign (##) denotes leg configuration (option BL, see 3.1.3).
- (3) Do not use vendor PIN's for acquisition. Items acquired to this number may not satisfy the performance requirements of this drawing.
- (4) CAGE 61081 (Birtcher) PIN's shown above indicate parts made of material option "A" (aluminum alloy 5052-H32) of 3.2.1. For material option "T" (aluminum alloy 6061-T6) of 3.2.1, insert "T6" immediately following the "71" (example "71T6-5-L"). For material option "S" (stainless steel, type 301 or type 304) of 3.2.1, insert "CR" immediately following the "71" (example "71CR-5-L").
- (5) Extractors made of material option "S" (stainless steel) are only available to be used with .063 (0.160 mm) thick printed wiring boards.

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PIN 84191- (1) (2)	Vendor similar designation or type number (3) (4)				Vendor CAGE	Vendor name, address and contact information
	Anodize (5)	Finish "C" (6)	Finish "E" (6)	Finish "P"		
03*##	109L%	109L	109L-SED	109CR-L	61081	Schroff, Inc. 7328 Trade Street San Diego, CA 92121-3410 Telephone: (858) 740-2400 Facsimile: (858) 740-2430 E-mail: askschroff@nVent.com URL: schroff.nvent.com
04*##	109R%	109R	109R-SED	109CR-R		
05*##	109-3L%	109-3L	109-3L-SED	109CR-3L		
06*##	109-3R%	109-3R	109-3R-SED	109CR-3R		
07*##	109-4L%	109-4L	109-4L-SED	109CR-4L		
08*##	109-4R%	109-4R	109-4R-SED	109CR-4R		
27*##	F109L%	F109L	F109L-SED	F109CR-L		
28*##	F109R%	F109R	F109R-SED	F109CR-R		
29*##	F109-3L%	F109-3L	F109-3L-SED	F109CR-3L		
30*##	F109-3R%	F109-3R	F109-3R-SED	F109CR-3R		
31*##	F109-4L%	F109-4L	F109-4L-SED	F109CR-4L		
32*##	F109-4R%	F109-4R	F109-4R-SED	F109CR-4R		

- (1) Parts must be purchased to this DESC PIN to assure that all performance requirements and inspections are met.
- (2) The asterisk (*) denotes finish (see 3.3), the ampersand (@) denotes material (see 3.2.1), and the pound signs (##) denotes leg configuration (option BL, see 3.1.3).
- (3) Do not use vendor PIN's for acquisition. Items acquired to this number may not satisfy the performance requirements of this drawing.
- (4) CAGE 61081 (Calmark) PIN's shown above (except finish "P") indicate parts made of material option "A" (aluminum alloy 5052-H32) of 3.2.1. For material option "T" (aluminum alloy 6061-T6) of 3.2.1, insert "T6" immediately following the "109" (example "109T6L"). Finish "P" extractors are made of stainless steel, material option "S" of 3.2.1.
- (5) Anodize finish parts have suffixes ("%") to indicate color.
- (6) Part number shown are gold chemical film (finish "C", see 3.3.2) or gold chemical film with optional SED symbol (finish "E", see 3.3.3).

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PIN 84191- (1) (2)	Vendor similar designation or type number (3) (4)				Vendor CAGE	Vendor name, address and contact information
	Anodize (5)	Finish "C"	Finish "E"	Finish "P"		
01*@@#	ME-AH-.04-LTB	ME-AH-.04-LA	ME-AH-.04-LAE	ME-AH-.04-LS	67012	Global Supply, LLC 500 Division Street Campbell, CA 95008-6906 Telephone: (408) 960-0370 Facsimile: (408) 960-0375 E-mail: sales@globalsupply.com URL: www.globalsupply.com
02*@@#	ME-AH-.04-RTB	ME-AH-.04-RA	ME-AH-.04-RAE	ME-AH-.04-RS		
03*@@#	ME-AH-.075-LTB	ME-AH-.075-LA	ME-AH-.075-LAE	ME-AH-.075-LS		
04*@@#	ME-AH-.075-RTB	ME-AH-.075-RA	ME-AH-.075-RAE	ME-AH-.075-RS		
05*@@#	ME-AH-.105-LTB	ME-AH-.105-LA	ME-AH-.105-LAE	ME-AH-.105-LS		
06*@@#	ME-AH-.105-RTB	ME-AH-.105-RA	ME-AH-.105-RAE	ME-AH-.105-RS		
07*@@#	ME-AH-.142-LTB	ME-AH-.142-LA	ME-AH-.142-LAE	ME-AH-.142-LS		
08*@@#	ME-AH-.142-RTB	ME-AH-.142-RA	ME-AH-.142-RAE	ME-AH-.142-RS		
09*@@#	ME-AH-.04-LTBT	ME-AH-.04-LAT	ME-AH-.04-LAET	ME-AH-.04-LST		
10*@@#	ME-AH-.04-RTBT	ME-AH-.04-RAT	ME-AH-.04-RAET	ME-AH-.04-RST		
11*@@#	ME-AH-.075-LTBT	ME-AH-.075-LAT	ME-AH-.075-LAET	ME-AH-.075-LST		
12*@@#	ME-AH-.075-RTBT	ME-AH-.075-RAT	ME-AH-.075-RAET	ME-AH-.075-RST		
13*@@#	ME-AH-.105-LTBT	ME-AH-.105-LAT	ME-AH-.105-LAET	ME-AH-.105-LST		
14*@@#	ME-AH-.105-RTBT	ME-AH-.105-RAT	ME-AH-.105-RAET	ME-AH-.105-RST		
15*@@#	ME-AH-.142-LTBT	ME-AH-.142-LAT	ME-AH-.142-LAET	ME-AH-.142-LST		
16*@@#	ME-AH-.142-RTBT	ME-AH-.142-RAT	ME-AH-.142-RAET	ME-AH-.142-RST		
17*@@#	ME-SH-.04-LTBT	ME-SH-.04-LAT	ME-SH-.04-LAET	ME-SH-.04-LST		
18*@@#	ME-SH-.04-RTBT	ME-SH-.04-RAT	ME-SH-.04-RAET	ME-SH-.04-RST		
19*@@#	ME-SH-.075-LTBT	ME-SH-.075-LAT	ME-SH-.075-LAET	ME-SH-.075-LST		
20*@@#	ME-SH-.075-RTBT	ME-SH-.075-RAT	ME-SH-.075-RAET	ME-SH-.075-RST		
21*@@#	ME-SH-.105-LTBT	ME-SH-.105-LAT	ME-SH-.105-LAET	ME-SH-.105-LST		
22*@@#	ME-SH-.105-RTBT	ME-SH-.105-RAT	ME-SH-.105-RAET	ME-SH-.105-RST		
23*@@#	ME-SH-.142-LTBT	ME-SH-.142-LAT	ME-SH-.142-LAET	ME-SH-.142-LST		
24*@@#	ME-SH-.142-RTBT	ME-SH-.142-RAT	ME-SH-.142-RAET	ME-SH-.142-RST		
25*@@#	ME-SH-.04-LTB	ME-SH-.04-LA	ME-SH-.04-LAE	ME-SH-.04-LS		
26*@@#	ME-SH-.04-RTB	ME-SH-.04-RA	ME-SH-.04-RAE	ME-SH-.04-RS		
27*@@#	ME-SH-.075-LTB	ME-SH-.075-LA	ME-SH-.075-LAE	ME-SH-.075-LS		
28*@@#	ME-SH-.075-RTB	ME-SH-.075-RA	ME-SH-.075-RAE	ME-SH-.075-RS		
29*@@#	ME-SH-.105-LTB	ME-SH-.105-LA	ME-SH-.105-LAE	ME-SH-.105-LS		
30*@@#	ME-SH-.105-RTB	ME-SH-.105-RA	ME-SH-.105-RAE	ME-SH-.105-RS		
31*@@#	ME-SH-.142-LTB	ME-SH-.142-LA	ME-SH-.142-LAE	ME-SH-.142-LS		
32*@@#	ME-SH-.142-RTB	ME-SH-.142-RA	ME-SH-.142-RAE	ME-SH-.142-RS		
33*@@#	ME-AH-.165-LTB	ME-AH-.165-LA	ME-AH-.165-LAE	ME-AH-.165-LS		
34*@@#	ME-AH-.165-RTB	ME-AH-.165-RA	ME-AH-.165-RAE	ME-AH-.165-RS		
35*@@#	ME-AH-.165-LTBT	ME-AH-.165-LAT	ME-AH-.165-LAET	ME-AH-.165-LST		
36*@@#	ME-AH-.165-RTBT	ME-AH-.165-RAT	ME-AH-.165-RAET	ME-AH-.165-RST		
37*@@#	ME-SH-.165-LTBT	ME-SH-.165-LAT	ME-SH-.165-LAET	ME-SH-.165-LST		
38*@@#	ME-SH-.165-RTBT	ME-SH-.165-RAT	ME-SH-.165-RAET	ME-SH-.165-RST		
39*@@#	ME-SH-.165-LTB	ME-SH-.165-LA	ME-SH-.165-LAE	ME-SH-.165-LS		
40*@@#	ME-SH-.165-RTB	ME-SH-.165-RA	ME-SH-.165-RAE	ME-SH-.165-RS		

- (1) Parts must be purchased to this DESC PIN to assure that all performance requirements and inspections are met.
- (2) The asterisk (*) denotes finish (see 3.3), the ampersand (@) denotes material (see 3.2.1), and the pound signs (##) denotes leg configuration (option BL, see 3.1.3).
- (3) Do not use vendor PIN's for acquisition. Items acquired to this number may not satisfy the performance requirements of this drawing.
- (4) CAGE 67012 card holders are supplied unassembled.
- (5) Part number shown are black anodize (see 3.3.1.1). CAGE 67012 parts are available in other anodize colors (see 3.3.1).

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PIN 84191- (1)_(2)	Vendor similar designation or type number (3) (4)				Vendor CAGE	Vendor name, address and contact information
	Anodize (5)	Finish "C"	Finish "E"	Finish "P"		
01*@@#	ME-AH-.04-LTB	ME-AH-.04-LA	ME-AH-.04-LAE	ME-AH-.04-LS	24227	TekNational Division of Global Supply, LLC 500 Division Street Campbell, CA 95008-6906 Telephone: (408) 960-0370 Facsimile: (408) 960-0375 E-mail: sales@globalsupply.com URL: www.teknational.com
02*@@#	ME-AH-.04-RTB	ME-AH-.04-RA	ME-AH-.04-RAE	ME-AH-.04-RS		
03*@@#	ME-AH-.075-LTB	ME-AH-.075-LA	ME-AH-.075-LAE	ME-AH-.075-LS		
04*@@#	ME-AH-.075-RTB	ME-AH-.075-RA	ME-AH-.075-RAE	ME-AH-.075-RS		
05*@@#	ME-AH-.105-LTB	ME-AH-.105-LA	ME-AH-.105-LAE	ME-AH-.105-LS		
06*@@#	ME-AH-.105-RTB	ME-AH-.105-RA	ME-AH-.105-RAE	ME-AH-.105-RS		
07*@@#	ME-AH-.142-LTB	ME-AH-.142-LA	ME-AH-.142-LAE	ME-AH-.142-LS		
08*@@#	ME-AH-.142-RTB	ME-AH-.142-RA	ME-AH-.142-RAE	ME-AH-.142-RS		
09*@@#	ME-AH-.04-LTBT	ME-AH-.04-LAT	ME-AH-.04-LAET	ME-AH-.04-LST		
10*@@#	ME-AH-.04-RTBT	ME-AH-.04-RAT	ME-AH-.04-RAET	ME-AH-.04-RST		
11*@@#	ME-AH-.075-LTBT	ME-AH-.075-LAT	ME-AH-.075-LAET	ME-AH-.075-LST		
12*@@#	ME-AH-.075-RTBT	ME-AH-.075-RAT	ME-AH-.075-RAET	ME-AH-.075-RST		
13*@@#	ME-AH-.105-LTBT	ME-AH-.105-LAT	ME-AH-.105-LAET	ME-AH-.105-LST		
14*@@#	ME-AH-.105-RTBT	ME-AH-.105-RAT	ME-AH-.105-RAET	ME-AH-.105-RST		
15*@@#	ME-AH-.142-LTBT	ME-AH-.142-LAT	ME-AH-.142-LAET	ME-AH-.142-LST		
16*@@#	ME-AH-.142-RTBT	ME-AH-.142-RAT	ME-AH-.142-RAET	ME-AH-.142-RST		
17*@@#	ME-SH-.04-LTBT	ME-SH-.04-LAT	ME-SH-.04-LAET	ME-SH-.04-LST		
18*@@#	ME-SH-.04-RTBT	ME-SH-.04-RAT	ME-SH-.04-RAET	ME-SH-.04-RST		
19*@@#	ME-SH-.075-LTBT	ME-SH-.075-LAT	ME-SH-.075-LAET	ME-SH-.075-LST		
20*@@#	ME-SH-.075-RTBT	ME-SH-.075-RAT	ME-SH-.075-RAET	ME-SH-.075-RST		
21*@@#	ME-SH-.105-LTBT	ME-SH-.105-LAT	ME-SH-.105-LAET	ME-SH-.105-LST		
22*@@#	ME-SH-.105-RTBT	ME-SH-.105-RAT	ME-SH-.105-RAET	ME-SH-.105-RST		
23*@@#	ME-SH-.142-LTBT	ME-SH-.142-LAT	ME-SH-.142-LAET	ME-SH-.142-LST		
24*@@#	ME-SH-.142-RTBT	ME-SH-.142-RAT	ME-SH-.142-RAET	ME-SH-.142-RST		
25*@@#	ME-SH-.04-LTB	ME-SH-.04-LA	ME-SH-.04-LAE	ME-SH-.04-LS		
26*@@#	ME-SH-.04-RTB	ME-SH-.04-RA	ME-SH-.04-RAE	ME-SH-.04-RS		
27*@@#	ME-SH-.075-LTB	ME-SH-.075-LA	ME-SH-.075-LAE	ME-SH-.075-LS		
28*@@#	ME-SH-.075-RTB	ME-SH-.075-RA	ME-SH-.075-RAE	ME-SH-.075-RS		
29*@@#	ME-SH-.105-LTB	ME-SH-.105-LA	ME-SH-.105-LAE	ME-SH-.105-LS		
30*@@#	ME-SH-.105-RTB	ME-SH-.105-RA	ME-SH-.105-RAE	ME-SH-.105-RS		
31*@@#	ME-SH-.142-LTB	ME-SH-.142-LA	ME-SH-.142-LAE	ME-SH-.142-LS		
32*@@#	ME-SH-.142-RTB	ME-SH-.142-RA	ME-SH-.142-RAE	ME-SH-.142-RS		
33*@@#	ME-AH-.165-LTB	ME-AH-.165-LA	ME-AH-.165-LAE	ME-AH-.165-LS		
34*@@#	ME-AH-.165-RTB	ME-AH-.165-RA	ME-AH-.165-RAE	ME-AH-.165-RS		
35*@@#	ME-AH-.165-LTBT	ME-AH-.165-LAT	ME-AH-.165-LAET	ME-AH-.165-LST		
36*@@#	ME-AH-.165-RTBT	ME-AH-.165-RAT	ME-AH-.165-RAET	ME-AH-.165-RST		
37*@@#	ME-SH-.165-LTBT	ME-SH-.165-LAT	ME-SH-.165-LAET	ME-SH-.165-LST		
38*@@#	ME-SH-.165-RTBT	ME-SH-.165-RAT	ME-SH-.165-RAET	ME-SH-.165-RST		
39*@@#	ME-SH-.165-LTB	ME-SH-.165-LA	ME-SH-.165-LAE	ME-SH-.165-LS		
40*@@#	ME-SH-.165-RTB	ME-SH-.165-RA	ME-SH-.165-RAE	ME-SH-.165-RS		

- (1) Parts must be purchased to this DESC PIN to assure that all performance requirements and inspections are met.
- (2) The asterisk (*) denotes finish (see 3.3), the ampersand (@) denotes material (see 3.2.1), and the pound signs (##) denotes leg configuration (option BL, see 3.1.3).
- (3) Do not use vendor PIN's for acquisition. Items acquired to this number may not satisfy the performance requirements of this drawing.
- (4) CAGE 24227 card holders are supplied unassembled.
- (5) Part number shown are black anodize (see 3.3.1.1). CAGE 24227 parts are available in other anodize colors (see 3.3.1).

DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OH 45444-5000	SIZE A	CODE IDENT NO. 14933	DWG NO. 84191
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