

| REVISIONS |  |             |                  |
|-----------|--|-------------|------------------|
| LTR       | DESCRIPTION  | DATE        | APPROVED         |
| A         | Pages 1-10, twenty parts added to drawing parts list and associated configurations added.  | 13 AUG 1986 | Ivan Jones       |
| B         | Added dimension C to dash numbers 15-17 and 32-34 and changed marking requirements. Added black anodize finish option. Added dash numbers 35-44. | 30 SEP 1987 | Randy Larson     |
| C         | Added 5 additional part numbers.   | 1 DEC 1987  | Clarence Brizius |
| D         | Corrected dimensions on figure 1 and configurations E and F. Added an additional source of supply.   | 8 JUL 1988  | Randy Larson     |
| E         | Corrected hole requirements on figure 1.   | 24 MAR 1989 | Randy Larson     |
| F         | Changes in accordance with NOR 5998-R004-95  | 15 MAY 1996 | John Raye        |
| G         | Changes to Figure 1 in accordance with NOR 5998-R001-98  | 17 AUG 1998 | Monica Poelking  |
| H         | Replaced canceled documents and corrected title. Editorial changes throughout.   | 31 MAR 2003 | Thomas Hess      |
| J         | Added new sources of supply.   | 4 DEC 2013  | Thomas Hess      |

CURRENT DESIGN ACTIVITY CAGE CODE 037Z3  
 DEFENSE LOGISTICS AGENCY  
 DLA LAND AND MARITIME,  
 COLUMBUS, OHIO 43218-3990

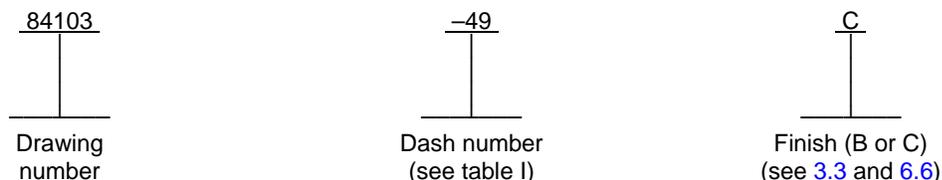
PINs -01 through -17 and -35 through -44 are  
 INACTIVE FOR NEW DESIGN  
 AFTER 31 MARCH 2003  
 FOR NEW DESIGN USE CID A-A-59590 (see 6.5)

|  |                                    |                    |    |   |   |   |          |    |       |    |    |    |    |    |    |    |   |   |
|--|------------------------------------|--------------------|----|---|---|---|----------|----|-------|----|----|----|----|----|----|----|---|---|
| REV  | J                                  | J                  | J  |   |   |   |          |    |       |    |    |    |    |    |    |    |   |   |
| PAGE                                       | 16                                 | 17                 | 18 |   |   |   |          |    |       |    |    |    |    |    |    |    |   |   |
| REV STATUS OF PAGES                        | REV                                | J                  | J  | J | J | J   | J        | J  | J     | J  | J  | J  | J  | J  | J  | J  | J | J |
|  | PAGE                               | 1                  | 2  | 3 | 4 | 5   | 6        | 7  | 8     | 9  | 10 | 11 | 12 | 13 | 14 | 15 |   |   |
| PMIC<br>N/A                                | PREPARED BY<br>Christopher A Rauch |                    |    |   |   | DESIGN ACTIVITY<br>DEFENSE ELECTRONICS SUPPLY CENTER,<br>DAYTON, OH 45444-5000  |          |    |       |    |    |    |    |    |    |    |   |   |
| Original date of drawing<br>27 August 1984 | CHECKED BY<br>Randy Larson         |                    |    |   |   | TITLE<br>HOLDER, ELECTRICAL CARD,<br>WEDGE RETAINER, 3-PIECE,<br>SCREW ACTUATED |          |    |       |    |    |    |    |    |    |    |   |   |
|  | APPROVED BY<br>Randy Larson        |                    |    |   |   |   |          |    |       |    |    |    |    |    |    |    |   |   |
|  | SIZE<br>A                          | CAGE CODE<br>14933 |    |   |   |   | DWG. NO. |    | 84103 |    |    |    |    |    |    |    |   |   |
|  | REV J                              |                    |    |   |   | PAGE 1  |          | OF |       | 18 |    |    |    |    |    |    |   |   |

1. SCOPE

1.1 Scope. This drawing describes the requirements for a family of metal card holders for use with printed circuit boards and circuit card assemblies in moderate shock and vibration environments.

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



2. APPLICABLE DOCUMENTS

2.1 General. The documents listed in this section are specified in sections 3, 4, or 5 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, 4, or 5 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-1285 – Marking of Electrical and Electronic Parts.

(Copies of these documents are available online at <http://quicksearch.dla.mil> or <https://assist.dla.mil> or from the Standardization Document Order Desk, 700 Robbins Avenue, Philadelphia, PA 19111-5094.)

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 which are DoD adopted are those listed in the issue of the DoDISS cited in the solicitation. Unless otherwise specified, the issues of documents not listed in the DoDISS are the issues of the documents cited in the solicitation (see 6.2).

AEROSPACE INDUSTRIES ASSOCIATION OF AMERICA, INC.

- AIA/NAS NAS 620 – Washer, Flat-Reduced Outside Diameter.
- AIA/NAS NAS 1676 – Washer, Lock-Spring, Helical, Hi-Collar.
- AIA/NAS NASM35338 – Washer, Lock-Spring, Helical, Regular (Medium) Series.
- AIA/NAS NASM122116-122155 – Insert, CRES Helical Coil, Coarse Thread, 1-1/2 Dia. Nominal Length.
- AIA/NAS NASM21043 – Nut, Self-Locking, 800 °F, Reduced Hexagon, Reduced Height, Ring Base, CRES.
- AIA/NAS NASM39086 – Pin, Spring, Tubular, Coiled, Heavy Duty.

(Copies of these documents are available online at <http://www.aia-aerospace.org> or from the Aerospace Industries Association, 1000 Wilson Boulevard, Suite 1700, Arlington, VA 22209-3901.)

|  |          |                |              |
|--|----------|----------------|--------------|
| <b>DEFENSE ELECTRONICS SUPPLY CENTER</b><br><br><b>DAYTON, OH 45444-5000</b> | SIZE     | CODE IDENT NO. | DWG NO.      |
|  | <b>A</b> | <b>14933</b>   | <b>84103</b> |
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ASTM INTERNATIONAL (ASTM)

- ASTM A313/A313M – Standard Specification for Stainless Steel Spring Wire.
- ASTM A484/A484M – Standard Specification for General Requirements for Stainless Steel Bars, Billets, and Forgings.
- ASTM A580/580M – Standard Specification for Stainless Steel Wire.
- ASTM A582/582M – Standard Specification for Free-Machining Stainless Steel Bars.
- ASTM A666 – Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.
- ASTM B194 – Standard Specification for Copper-Beryllium Alloy Plate, Sheet, Strip, and Rolled Bar.
- 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> or from the ASTM International, P.O. Box C700, 100 Barr Harbor Drive, West Conshohocken, PA 19428–2959.)

SAE INTERNATIONAL (SAE)

- SAE AMS-QQ-A-200/8 – Aluminum Alloy 6061, Bar, Rod, Shapes, Tube, and Wire, Extruded.
- SAE AMS-QQ-S-763 – Steel, Corrosion Resistant, Bars, Wire, Shapes, and Forgings.
- SAE AMS 5525 – Steel, Corrosion and Heat Resistant, Sheet, Strip, and Plate 15Cr - 25.5Ni - 1.2Mo - 2.1Ti - 0.006B - 0.30V 1800 °F (982 °C) Solution Heat Treated.
- SAE AMS 5643 – Steel, Corrosion Resistant, Bars, Wire, Forgings, Tubing, and Rings 16Cr - 4.0Ni - 0.30Cb - 4.0Cu Solution Heat Treated, Precipitation Hardenable.
- SAE AMS 5904 – Steel, Corrosion-Resistant, Sheet and Strip 18Cr - 9.0Ni (SAE 30302) Cold Rolled 1/2 Hard, 150ksi (1034 MPa) Tensile Strength.

(Copies of these documents are available online at <http://www.sae.org> or from SAE World Headquarters, 400 Commonwealth Drive, Warrendale, PA 15096–0001.)

(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.

3.1.1 Recommended torque. The recommended installation torque for the card holder assembly is 6 inch-pounds (0.7 N-m).

3.1.2 Locking feature. Dash numbers 18 through 34 and 45 through 49 are supplied with a locknut which prevents the disassembly of card holder once installed onto the circuit card assembly.

3.1.3 Mounting to circuit card assembly. These card holders are fastened to the circuit card assembly using either rivets or by brazing. Some card holders conforming to this drawing may be supplied in a unassembled condition. See 6.7 for additional information.

3.2 Materials.

3.2.1 Body and wedges. The body and wedge material shall be aluminum alloy in accordance with [SAE AMS-QQ-A-200/8](#) or [ASTM B221](#).

3.2.2 Captive nut (when applicable). The captive nut material shall stainless steel in accordance with [ASTM A582/582M](#) (CRES 303).

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3.2.3 Cup. The cup material for visual indicators shall stainless steel in accordance with [ASTM B194](#) or [SAE AMS 5904](#).

3.2.4 Flat washer. The flat washer (included with the locking feature) shall comply with [AIA/NAS NAS 620](#) or equivalent.

3.2.5 Locknut. The lock nut material shall be stainless steel in accordance with [SAE AMS 5525](#) (A286).

3.2.6 Lockwasher. The lockwasher (included with the locking feature) shall comply with [AIA/NAS NASM35338](#), [AIA/NAS NAS 1676](#), or equivalent.

3.2.7 Screw. The screw material for dash numbers 01 through 17 and 35 through 44 shall be stainless steel in accordance with [SAE AMS-QQ-S-763](#), [ASTM A484/A484M](#) or [ASTM A582/582M](#) (303 CRES). The screw material for dash numbers 18 through 34 and 45 through 49 shall be stainless steel in accordance with [SAE AMS 5643](#) (17-4PH, CRES) with 155,000 pounds per square inch (1068 MPa) minimum yield strength.

3.2.8 Screw retention.

3.2.8.1 Captive nut. When a captive nut is used, the captive nut material shall be stainless steel, type 303, in accordance with [ASTM A582/582M](#).

3.2.8.2 Helical insert. When a helical insert is used, the helical insert shall be in accordance with [AIA/NAS NASM122116](#).

3.2.9 Spring. The spring material for visual indicators shall be stainless steel in accordance with [ASTM A313/A313M](#) or [ASTM A580/580M](#).

3.3 Finish.

3.3.1 Bodies and wedges. The bodies and wedge finish shall be chemical finish in accordance with [MIL-DTL-5541](#), class 1A or black anodize in accordance with [MIL-A-8625](#), type I or II, class 2. Card holders with a chemical film finish shall include a suffix "C" in the PIN. Card holders with a black anodize finish shall include a suffix "B" in the PIN (see [1.2](#)).

3.3.2 Captive nut and cup (when applicable). The captive nut and cup shall be passivate in accordance with [MIL-DTL-5002](#).

3.3.3 Flat washer and lockwasher. The flat washer and lockwasher, captive nut, helical insert, and screw shall be passivate in accordance with [MIL-DTL-5002](#).

3.3.4 Screw and spring. The screw and spring shall be passivate in accordance with [MIL-DTL-5002](#).

3.4 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 [6.7](#). The certificate of compliance submitted to DLA Land and Maritime VAC, prior to listing as an suggested source of supply in [6.7](#), shall state that the manufacturer's product meets the requirements herein.

3.5 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](#)).

3.6 Marking. Marking of the card holder 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 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.

3.8 Workmanship. Card holders shall be free from surface and finish flaws that affect life or serviceability. Card holders shall be finished smooth and shall have rounded edges with no evidence of chipping, cracking, deterioration, disintegration, or burrs.

|  |          |                       |                        |
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| <b>DEFENSE ELECTRONICS SUPPLY CENTER</b><br><b>DAYTON, OH 45444-5000</b> | SIZE     | CODE IDENT NO.        | DWG NO.                |
|  | <b>A</b> | <b>14933</b><br>REV J | <b>84103</b><br>PAGE 4 |

TABLE I. Configurations and dimensions.

| PIN<br>84103 | Dimension "L"<br>±.03 inch<br>(±0.8 mm) |       | Dimension "A"<br>+.03 / -.09 inch<br>(+0.8 / 2.9 mm) |       | Dimension "B"<br>±0.03 inch<br>(±0.8 mm) |       | Dimension "C"<br>±0.005 inch<br>(±0.13mm) |      | Configuration                     |
|--------------|---|-------|--|-------|--|-------|---|------|-----------------------------------|
|              | Inches                                  | mm    | Inches   | mm    | Inches                                   | mm    | Inches                                    | mm   |                                   |
| -01          | 2.80                                    | 71.1  | 3.00   | 76.2  | 2.30                                     | 58.4  | .90                                       | 22.9 | A and B<br><u>1/</u>              |
| -02          | 3.00                                    | 76.2  | 3.20   | 81.3  | 2.50                                     | 63.5  | 1.10                                      | 27.9 |                                   |
| -03          | 3.50                                    | 88.9  | 3.70   | 94.0  | 3.00                                     | 76.2  | 1.60                                      | 40.6 |                                   |
| -04          | 3.80                                    | 96.5  | 4.00   | 101.6 | 3.30                                     | 83.8  | 1.90                                      | 48.3 |                                   |
| -05          | 4.80                                    | 121.9 | 5.00   | 127.0 | 4.30                                     | 109.2 | 2.90                                      | 73.7 |                                   |
| -06          | 5.30                                    | 134.6 | 5.50   | 139.7 | 4.80                                     | 121.9 | 3.40                                      | 86.4 |                                   |
| -07          | 5.80                                    | 147.3 | 6.00   | 152.4 | 5.30                                     | 134.6 | 3.90                                      | 99.1 |                                   |
| -08          | 2.80                                    | 71.1  | 3.20   | 81.3  | 2.30                                     | 58.4  | .90                                       | 22.9 | A,<br>B,<br>and<br>C<br><u>1/</u> |
| -09          | 3.00                                    | 76.2  | 3.40   | 86.4  | 2.50                                     | 63.5  | 1.10                                      | 27.9 |                                   |
| -10          | 3.50                                    | 88.9  | 3.90   | 99.1  | 3.00                                     | 76.2  | 1.60                                      | 40.6 |                                   |
| -11          | 3.80                                    | 96.5  | 4.20   | 106.7 | 3.30                                     | 83.8  | 1.90                                      | 48.3 |                                   |
| -12          | 4.80                                    | 121.9 | 5.20   | 132.1 | 4.30                                     | 109.2 | 2.90                                      | 73.7 |                                   |
| -13          | 5.30                                    | 134.6 | 5.70   | 144.8 | 4.80                                     | 121.9 | 3.40                                      | 86.4 |                                   |
| -14          | 5.80                                    | 147.3 | 6.20   | 157.5 | 5.30                                     | 134.6 | 3.90                                      | 99.1 |                                   |
| -15          | 2.80                                    | 71.1  | 3.00   | 76.2  | 1.95                                     | 49.5  | .90                                       | 22.9 | D<br><u>1/</u>                    |
| -16          | 3.80                                    | 96.5  | 4.00   | 101.6 | 2.95                                     | 74.9  | 1.90                                      | 48.3 |                                   |
| -17          | 4.80                                    | 121.9 | 5.00   | 127.0 | 3.95                                     | 100.3 | 2.90                                      | 73.7 |                                   |
| -18          | 2.80                                    | 71.1  | 3.10   | 78.7  | 2.30                                     | 58.4  | .90                                       | 22.9 | A<br>B<br>and<br>E                |
| -19          | 3.00                                    | 76.2  | 3.30   | 83.8  | 2.50                                     | 63.5  | 1.10                                      | 27.9 |                                   |
| -20          | 3.50                                    | 88.9  | 3.80   | 96.5  | 3.00                                     | 76.2  | 1.60                                      | 40.6 |                                   |
| -21          | 3.80                                    | 96.5  | 4.10   | 104.1 | 3.30                                     | 83.8  | 1.90                                      | 48.3 |                                   |
| -22          | 4.80                                    | 121.9 | 5.10   | 129.5 | 4.30                                     | 109.2 | 2.90                                      | 73.7 |                                   |
| -23          | 5.30                                    | 134.6 | 5.60   | 142.7 | 4.80                                     | 121.9 | 3.40                                      | 86.4 |                                   |
| -24          | 5.80                                    | 147.3 | 6.10   | 154.9 | 5.30                                     | 134.6 | 3.90                                      | 99.1 |                                   |
| -25          | 2.80                                    | 71.1  | 3.30   | 83.8  | 2.30                                     | 58.4  | .90                                       | 22.9 | A<br>B<br>C<br>and<br>E           |
| -26          | 3.00                                    | 76.2  | 3.50   | 88.9  | 2.50                                     | 63.5  | 1.10                                      | 27.9 |                                   |
| -27          | 3.50                                    | 88.9  | 4.00   | 101.6 | 3.00                                     | 76.2  | 1.60                                      | 40.6 |                                   |
| -28          | 3.80                                    | 96.5  | 4.30   | 109.2 | 3.30                                     | 83.8  | 1.90                                      | 48.3 |                                   |
| -29          | 4.80                                    | 121.9 | 5.30   | 134.6 | 4.30                                     | 109.2 | 2.90                                      | 73.7 |                                   |
| -30          | 5.30                                    | 134.6 | 5.80   | 147.3 | 4.80                                     | 121.9 | 3.40                                      | 86.4 |                                   |
| -31          | 5.80                                    | 147.3 | 6.30   | 160.0 | 5.30                                     | 134.6 | 3.90                                      | 99.1 |                                   |

See footnotes at end of table.

|  |                      |                                    |                             |
|--|----------------------|------------------------------------|-----------------------------|
| <b>DEFENSE ELECTRONICS SUPPLY CENTER</b><br><b>DAYTON, OH 45444-5000</b> | SIZE<br><br><b>A</b> | CODE IDENT NO.<br><br><b>14933</b> | DWG NO.<br><br><b>84103</b> |
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TABLE I. Dash numbers and dimensions – Continued.

| PIN<br>84103 | Dimension "L"<br>±.03 inch<br>(0.8 mm) |       | Dimension "A"<br>+.03 / -.09 inch<br>(+0.8 / 2.9 mm) |       | Dimension "B"<br>±.03 inch<br>(±0.8mm) |       | Dimension "C"<br>±.005 inch<br>(±0.13mm) |       | Configuration        |
|--------------|--|-------|--|-------|--|-------|--|-------|----------------------|
|              | Inches                                 | mm    | Inches   | mm    | Inches                                 | mm    | Inches                                   | mm    |                      |
| -32          | 2.80                                   | 71.1  | 3.00   | 76.2  | 1.95                                   | 49.5  | .90                                      | 22.9  | D and F              |
| -33          | 3.80                                   | 96.5  | 4.00   | 101.6 | 2.95                                   | 74.9  | 1.90                                     | 48.3  |                      |
| -34          | 4.80                                   | 121.9 | 5.00   | 127.0 | 3.95                                   | 100.3 | 2.90                                     | 73.6  |                      |
| -35          | 5.50                                   | 139.7 | 5.70   | 144.8 | 5.00                                   | 127.0 | 3.60                                     | 91.4  | A and B<br><u>1/</u> |
| -36          | 6.10                                   | 154.9 | 6.30   | 160.0 | 5.60                                   | 142.2 | 4.20                                     | 106.7 |                      |
| -37          | 6.70                                   | 170.2 | 6.90   | 175.3 | 6.20                                   | 157.5 | 4.80                                     | 121.9 |                      |
| -38          | 2.80                                   | 71.1  | 3.00   | 76.2  | 2.24                                   | 56.9  | .90                                      | 22.9  | G and H<br><u>1/</u> |
| -39          | 3.00                                   | 76.2  | 3.20   | 81.3  | 2.44                                   | 62.0  | 1.10                                     | 27.9  |                      |
| -40          | 3.50                                   | 88.9  | 3.70   | 94.0  | 2.94                                   | 74.7  | 1.60                                     | 40.6  |                      |
| -41          | 3.80                                   | 96.5  | 4.00   | 101.6 | 3.24                                   | 82.3  | 1.90                                     | 48.3  |                      |
| -42          | 4.80                                   | 121.9 | 5.00   | 127.0 | 4.24                                   | 107.7 | 2.90                                     | 73.7  |                      |
| -43          | 5.30                                   | 134.6 | 5.50   | 139.7 | 4.74                                   | 120.4 | 3.40                                     | 86.4  |                      |
| -44          | 5.80                                   | 147.3 | 6.00   | 162.4 | 5.24                                   | 133.1 | 3.90                                     | 90.1  | D and F              |
| -45          | 3.00                                   | 76.2  | 3.20   | 81.3  | 2.15                                   | 54.6  | 1.10                                     | 27.9  |                      |
| -46          | 3.50                                   | 88.9  | 3.70   | 94.1  | 2.65                                   | 67.3  | 1.60                                     | 40.6  |                      |
| -47          | 4.00                                   | 101.7 | 4.20   | 106.4 | 3.15                                   | 80.0  | 2.10                                     | 53.3  |                      |
| -48          | 4.50                                   | 114.4 | 4.70   | 119.5 | 3.65                                   | 92.7  | 2.60                                     | 66.0  |                      |
| -49          | 5.00                                   | 127.0 | 5.20   | 131.4 | 4.15                                   | 105.4 | 3.10                                     | 78.7  |                      |

1/ Inactive for new design. For new design use CID specification sheets identified in [6.5](#).

|  |                      |                                    |                             |
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| <b>DEFENSE ELECTRONICS SUPPLY CENTER</b><br><b>DAYTON, OH 45444-5000</b> | SIZE<br><br><b>A</b> | CODE IDENT NO.<br><br><b>14933</b> | DWG NO.<br><br><b>84103</b> |
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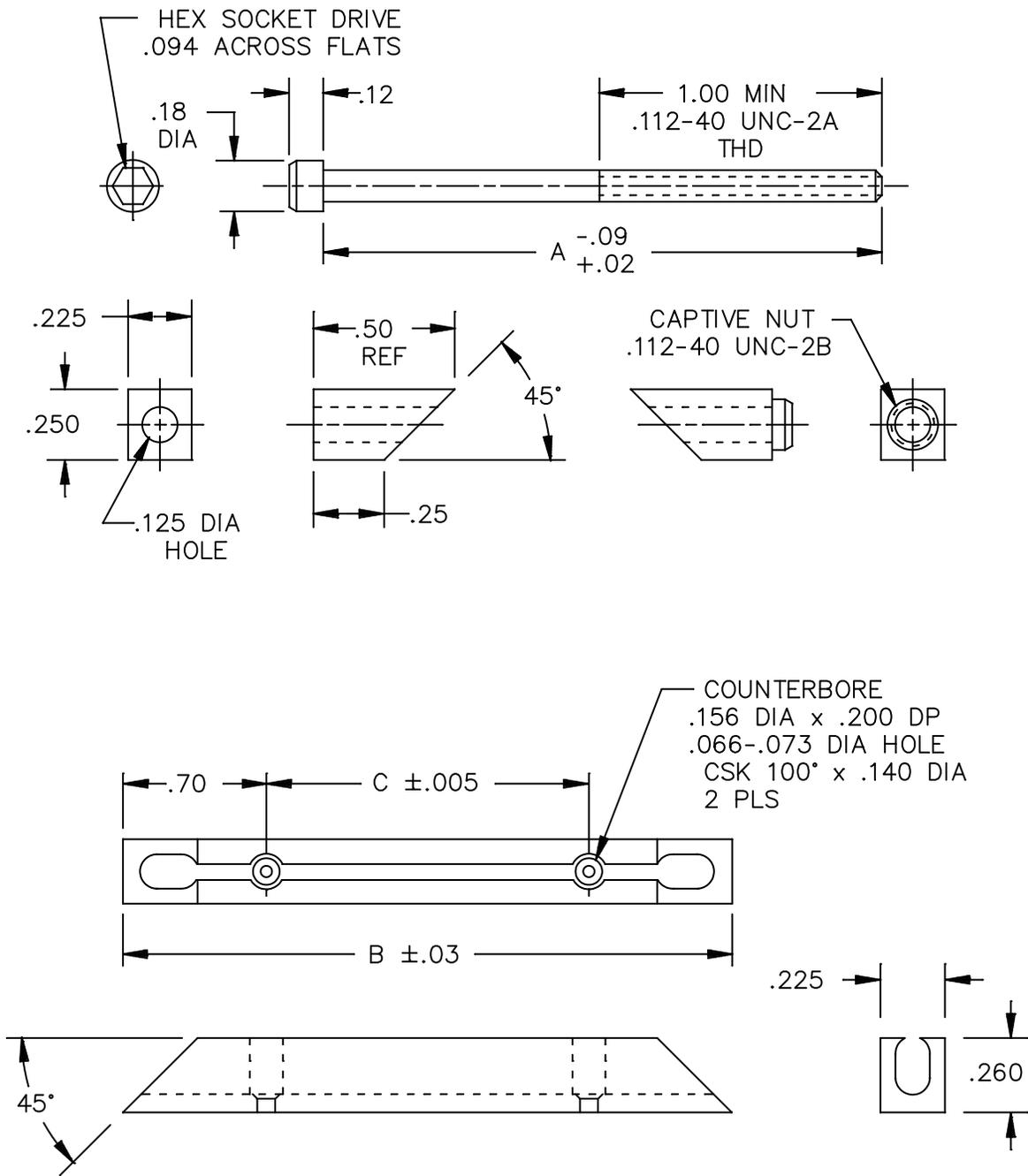


FIGURE 1. Card holder dimensions and configurations.

DEFENSE ELECTRONICS SUPPLY CENTER  
DAYTON, OH 45444-5000

SIZE

A

CODE IDENT NO.

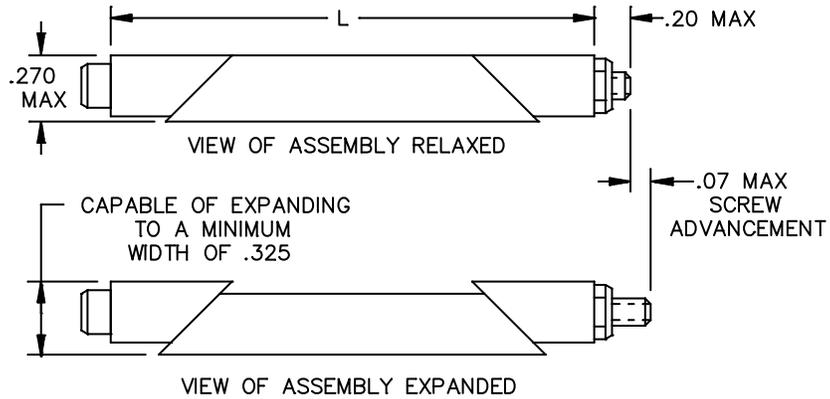
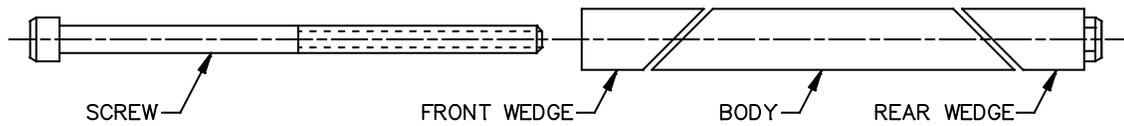
14933

REV J

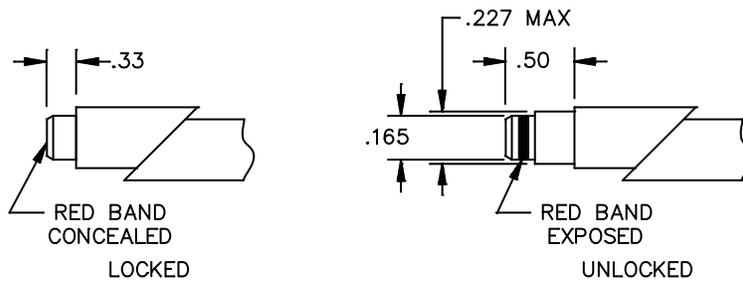
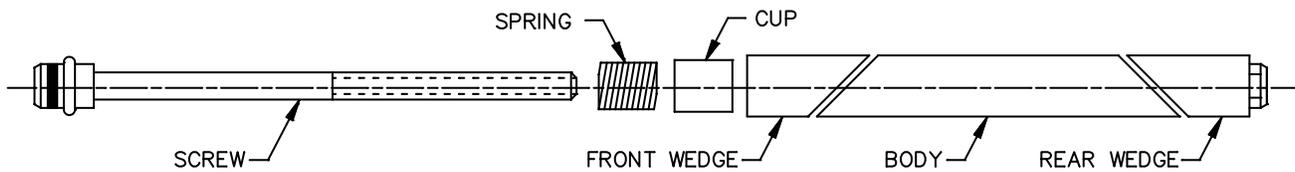
DWG NO.

84103

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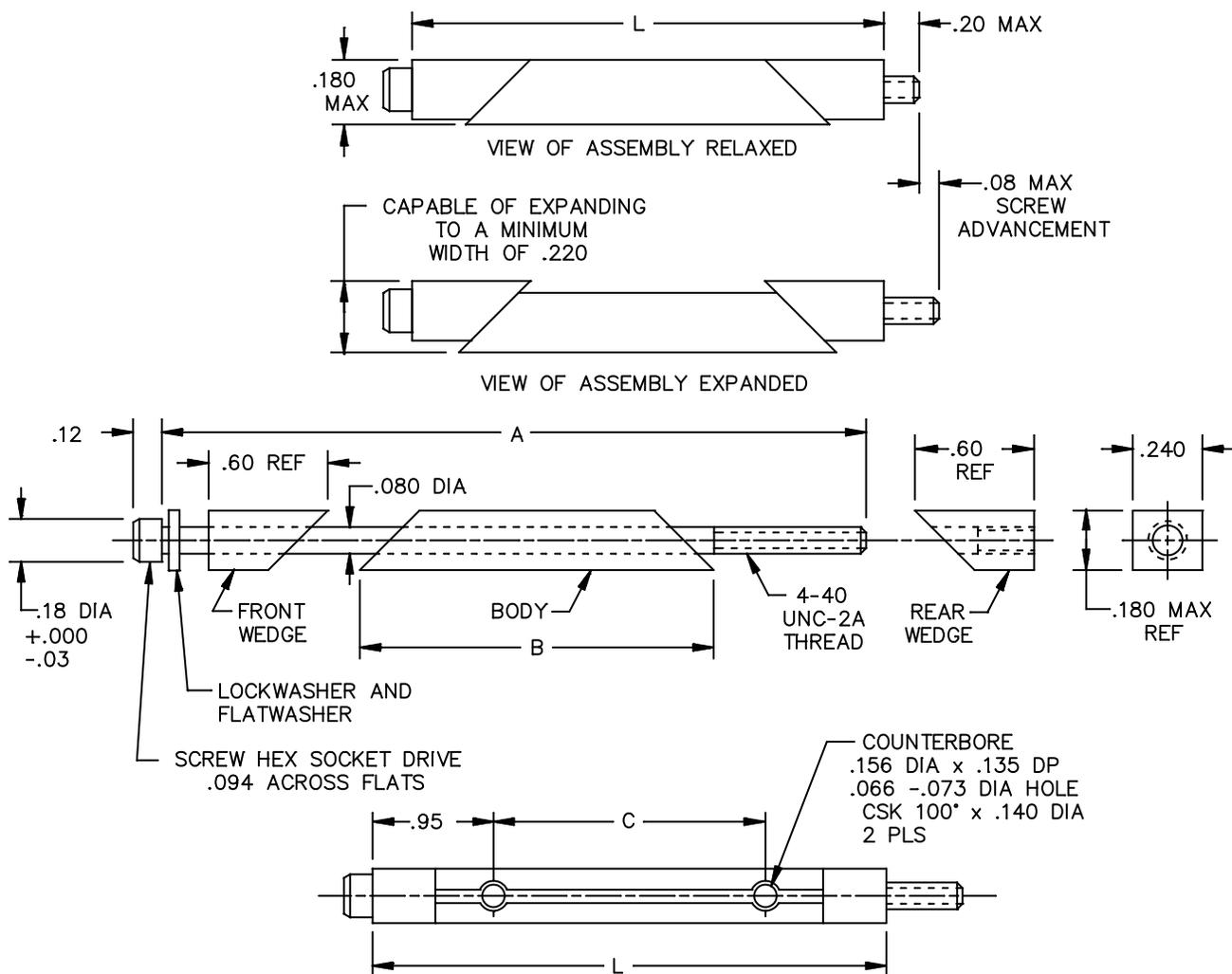
CONFIGURATION B. ASSEMBLY OF PART



CONFIGURATION C. OPTIONAL VISUAL INDICATOR

FIGURE 1. Card holder dimensions and configurations – Continued.

|  |                  |                                |                         |
|--|------------------|--------------------------------|-------------------------|
| <b>DEFENSE ELECTRONICS SUPPLY CENTER</b><br><b>DAYTON, OH 45444-5000</b> | SIZE<br><b>A</b> | CODE IDENT NO.<br><b>14933</b> | DWG NO.<br><b>84103</b> |
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CONFIGURATION D

DIMENSIONS AND ASSEMBLY OF NARROW WIDTH HOLDERS FOR MINIMUM CARD SPACING

FIGURE 1. Card holder dimensions and configurations – Continued.

|  |          |                |              |
|--|----------|----------------|--------------|
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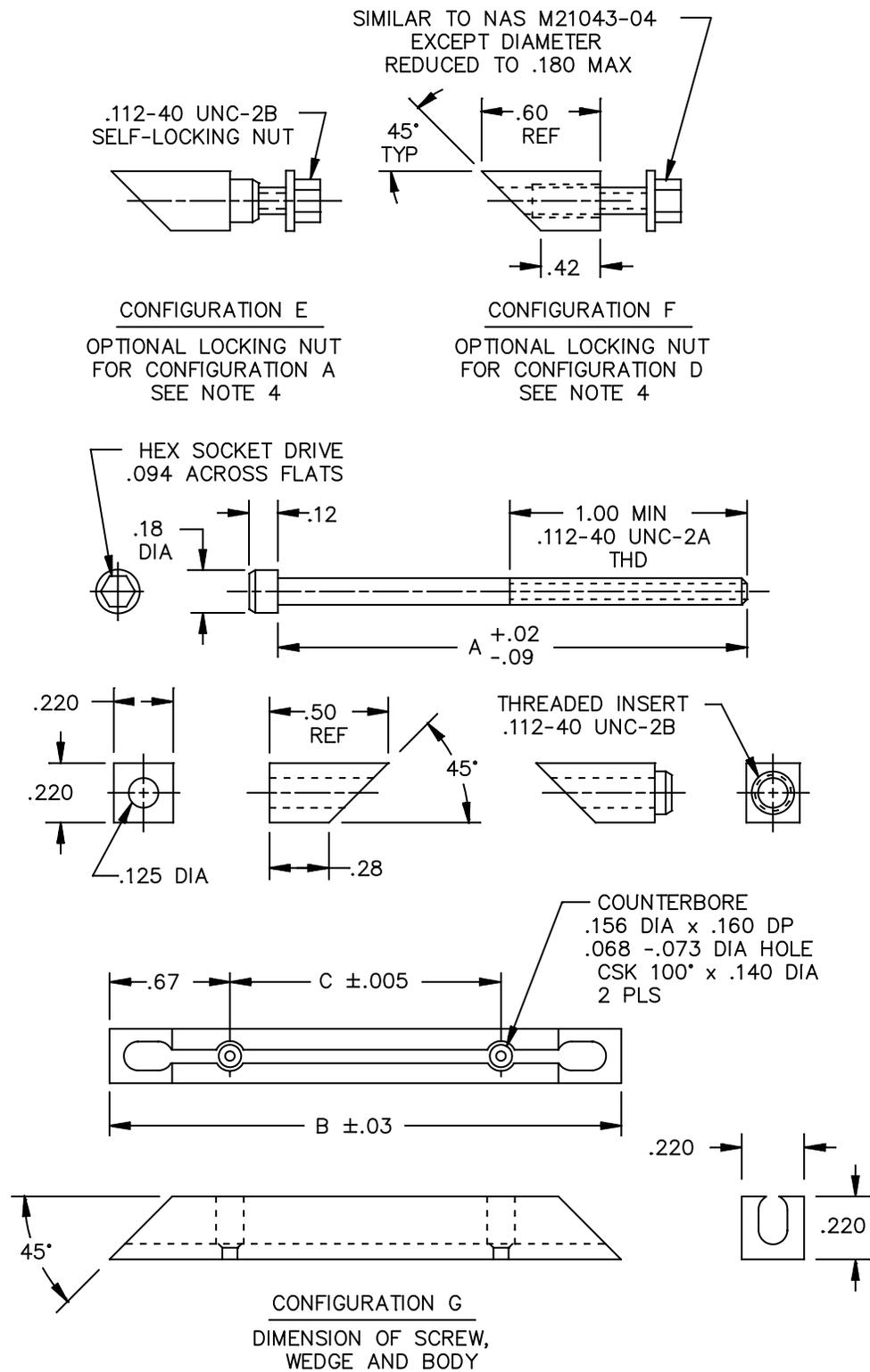
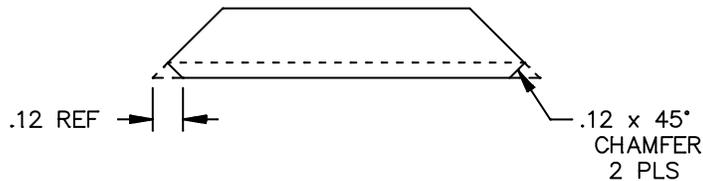
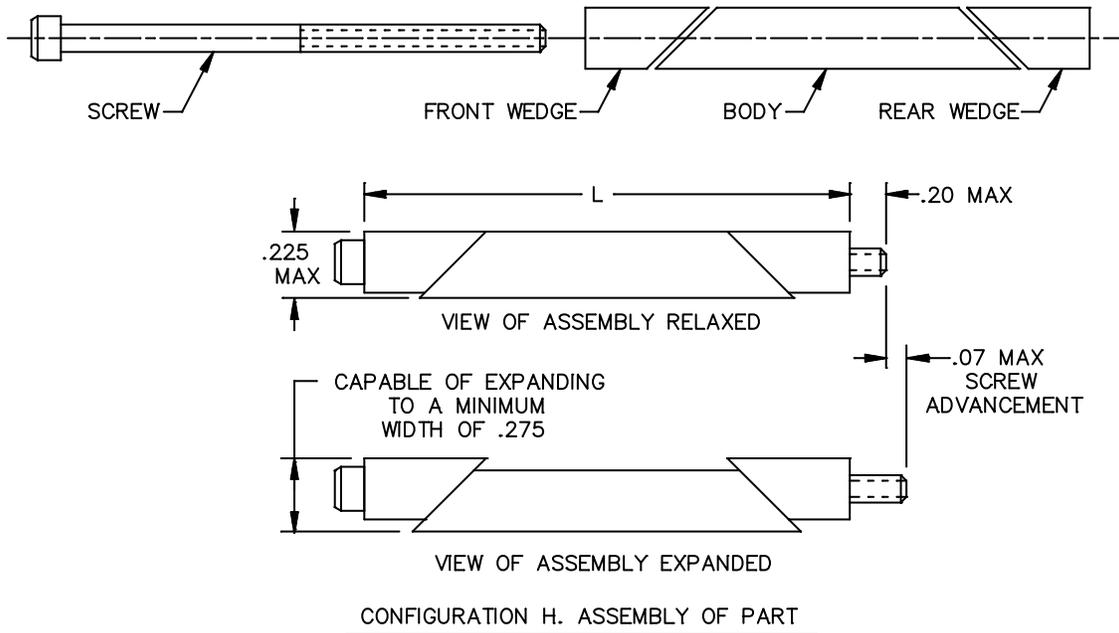


FIGURE 1. Card holder dimensions and configurations – Continued.

|  |                             |   |                                    |
|--|-----------------------------|---|------------------------------------|
| <b>DEFENSE ELECTRONICS SUPPLY CENTER</b><br><b>DAYTON, OH 45444-5000</b> | <b>SIZE</b><br><br><b>A</b> | <b>CODE IDENT NO.</b><br><br><b>14933</b> | <b>DWG NO.</b><br><br><b>84103</b> |
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Alternative configuration of bodies and wedges. 3/

| Inches | mm    | Inches | mm    |
|--------|------|--------|------|--------|------|--------|------|--------|-------|--------|-------|
| .005   | 0.13 | .080   | 2.03 | .156   | 3.96 | .225   | 5.72 | .28    | 7.1   | .500   | 12.7  |
| .02    | 0.5  | .09    | 2.9  | .160   | 4.06 | .227   | 5.77 | .30    | 7.6   | .57    | 14.5  |
| .03    | 0.8  | .094   | 2.39 | .165   | 4.19 | .240   | 6.10 | .325   | 8.26  | .60    | 15.2  |
| .066   | 1.68 | .112   | 2.85 | .18    | 4.6  | .25    | 6.4  | .33    | 8.4   | .600   | 15.24 |
| .068   | 1.73 | .12    | 3.0  | .180   | 4.57 | .250   | 6.35 | .40    | 10.2  | .67    | 17.0  |
| .07    | 1.8  | .125   | 3.18 | .20    | 5.1  | .260   | 6.60 | .42    | 10.7  | .70    | 17.8  |
| .073   | 1.85 | .135   | 3.49 | .200   | 5.08 | .27    | 6.9  | .460   | 11.68 | .95    | 24.1  |
| .08    | 2.0  | .140   | 3.56 | .220   | 5.59 | .270   | 6.86 | .50    | 12.7  | 1.00   | 25.4  |

NOTES:

1. Dimensions are in inches. Metric equivalents are given for general information only.
2. Unless otherwise specified, tolerances are for  $\pm 0.02$  inch (0.51 mm) for two place decimals and  $\pm 0.010$  inch (0.25 mm) for three place decimals.
3. All trapezoidal wedge bodies (ends and middle) may or may not have a chamfer as shown. The overall length of the wedge bodies with chamfers will be reduced.
4. Locking nut prevents unintentional disassembly of card holder once installed.

FIGURE 1. Card holder dimensions and configurations – Continued.

|  |          |                |              |
|--|----------|----------------|--------------|
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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), 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 II. 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. Card holders 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. Requirements for packaging and packing.

6.3 Users of record. Coordination of this document for future revisions are coordinated only with the suggested sources of supply and the users of record of this document. Requests to be added as a recorded user of this drawing should be in writing to: DLA Land and Maritime, ATTN: VAC, Post Office Box 3990, Columbus, OH 43216-5000 or by electronic mail at [5998.Documents@dla.mil](mailto:5998.Documents@dla.mil) or by facsimile (614) 692-6939 or DSN 850-6939.

6.4 Replaceability. Retainers covered herein replace similar commercial devices covered by contractor-prepared specifications or drawings.

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

| <u>Superseding (new) part number</u> | <u>Superseded (old) part number</u> |
|--------------------------------------|-------------------------------------|
| AA59590/04CJ28                       | 84103-01C                           |
| AA59590/04BJ28                       | 84103-01B                           |
| AA59590/04CJ30                       | 84103-02C                           |
| AA59590/04BJ30                       | 84103-02B                           |
| AA59590/04CJ35                       | 84103-03C                           |
| AA59590/04BJ35                       | 84103-03B                           |
| AA59590/04CJ38                       | 84103-04C                           |
| AA59590/04BJ38                       | 84103-04B                           |
| AA59590/04CJ48                       | 84103-05C                           |
| AA59590/04BJ48                       | 84103-05B                           |
| AA59590/04BJ53                       | 84103-06C                           |
| AA59590/04BJ53                       | 84103-06B                           |
| AA59590/04BJ58                       | 84103-07C                           |
| AA59590/04BJ58                       | 84103-07B                           |
| AA59590/03CJ28                       | 84103-08C                           |
| AA59590/03BJ28                       | 84103-08B                           |
| AA59590/03CJ30                       | 84103-09C                           |
| AA59590/03BJ30                       | 84103-09B                           |
| AA59590/03CJ35                       | 84103-10C                           |
| AA59590/03BJ35                       | 84103-10B                           |
| AA59590/03CJ38                       | 84103-11C                           |
| AA59590/03BJ38                       | 84103-11B                           |

|  |          |                |              |
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| Superseding (new) part number | Superseded (old) part number |
|-------------------------------|------------------------------|
| AA59590/03CJ48                | 84103-12C                    |
| AA59590/03BJ48                | 84103-12B                    |
| AA59590/03BJ53                | 84103-13C                    |
| AA59590/03BJ53                | 84103-13B                    |
| AA59590/03BJ58                | 84103-14C                    |
| AA59590/03BJ58                | 84103-14B                    |
| AA59590/11CJ28W               | 84103-15C                    |
| AA59590/11BJ28W               | 84103-15B                    |
| AA59590/11CJ38W               | 84103-16C                    |
| AA59590/11BJ38W               | 84103-16B                    |
| AA59590/11CJ48W               | 84103-17C                    |
| AA59590/11BJ48W               | 84103-17B                    |
| AA59590/04CJ55                | 84103-35C                    |
| AA59590/04BJ55                | 84103-35B                    |
| AA59590/04CJ61                | 84103-36C                    |
| AA59590/04BJ61                | 84103-36B                    |
| AA59590/04CJ67                | 84103-37C                    |
| AA59590/04BJ67                | 84103-37B                    |
| AA59590/07CJ28                | 84103-38C                    |
| AA59590/07BJ28                | 84103-38B                    |
| AA59590/07CJ30                | 84103-39C                    |
| AA59590/07BJ30                | 84103-39B                    |
| AA59590/07CJ35                | 84103-40C                    |
| AA59590/07BJ35                | 84103-40B                    |
| AA59590/07CJ38                | 84103-41C                    |
| AA59590/07BJ38                | 84103-41B                    |
| AA59590/07CJ48                | 84103-42C                    |
| AA59590/07BJ48                | 84103-42B                    |
| AA59590/07CJ53                | 84103-43C                    |
| AA59590/07BJ53                | 84103-43B                    |
| AA59590/07CJ58                | 84103-44C                    |
| AA59590/07BJ58                | 84103-44B                    |

6.6 Superseded PINs. The original issue of this drawing PIN did not contain a suffix to designate finish (see 3.3) since it only covered card holders with a chemical film finish on the wedges and body. 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 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](mailto:5998.Documents@dla.mil) or by facsimile (614) 692-6939 or DSN 850-6939.

|  |          |                |              |
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| DESC drawing PIN<br>84103 (1) | Vendor similar designation or type number (2) (3) | DESC drawing PIN<br>84103 (1) | Vendor similar designation or type number (2) (3) | Vendor CAGE | Vendor name and address   |
|-------------------------------|---|-------------------------------|---|-------------|---|
| -01*                          | 3225**-2.80H                                      | -25*                          | 84103-25*   | 5BG68       | American Circuit Card Retainers, Inc.<br>2310 E. Orangethorpe Avenue<br>Anaheim, CA 92806-1231<br><br>Telephone: (714) 738-6194<br>Facsimile: (714) 446-0119<br><br>E-mail:<br><a href="mailto:sales@accrmfg.com">sales@accrmfg.com</a><br><br>URL: <a href="http://www.accrmfg.com">http://www.accrmfg.com</a> |
| -02*                          | 3225**-3.00H                                      | -26*                          | 84103-26*   |             |   |
| -03*                          | 3225**-3.50H                                      | -27*                          | 84103-27*   |             |   |
| -04*                          | 3225**-3.80H                                      | -28*                          | 84103-28*   |             |   |
| -05*                          | 3225**-4.80H                                      | -29*                          | 84103-29*   |             |   |
| -06*                          | 3225**-5.30H                                      | -30*                          | 84103-30*   |             |   |
| -07*                          | 3225**-5.80H                                      | -31*                          | 84103-31*   |             |   |
| -08*                          | 3225V**-2.80H                                     | -32*                          | 84103-32*   |             |   |
| -09*                          | 3225V**-3.00H                                     | -33*                          | 84103-33*   |             |   |
| -10*                          | 3225V**-3.50H                                     | -34*                          | 84103-34*   |             |   |
| -11*                          | 3225V**-3.80H                                     | -35*                          | 3225**-5.50H                                      |             |   |
| -12*                          | 3225V**-4.80H                                     | -36*                          | 3225**-6.10H                                      |             |   |
| -13*                          | 3225V**-5.30H                                     | -37*                          | 3225**-6.70H                                      |             |   |
| -14*                          | 3225V**-5.80H                                     | -38*                          | 3220**-2.80H                                      |             |   |
| -15*                          | 3240W**-2.80H                                     | -39*                          | 3220**-2.80H                                      |             |   |
| -16*                          | 3240W**-3.80H                                     | -40*                          | 3220**-2.80H                                      |             |   |
| -17*                          | 3240W**-4.80H                                     | -41*                          | 3220**-2.80H                                      |             |   |
| -18*                          | 84103-18*   | -42*                          | 3220**-2.80H                                      |             |   |
| -19*                          | 84103-19*   | -43*                          | 3220**-2.80H                                      |             |   |
| -20*                          | 84103-20*   | -44*                          | 3220**-2.80H                                      |             |   |
| -21*                          | 84103-21*   | -45*                          | 84103-45*   |             |   |
| -22*                          | 84103-22*   | -46*                          | 84103-46*   |             |   |
| -23*                          | 84103-23*   | -47*                          | 84103-47*   |             |   |
| -24*                          | 84103-24*   | -48*                          | 84103-48*   |             |   |
|                               |   | -49*                          | 84103-49*   |             |   |

- (1) Parts must be purchased to this DESC PIN to assure that all performance requirements and inspections are met. The asterisk (\*) denotes finish (see 3.3).
- (2) Do not use vendor PIN's for acquisition. Items acquired to this number may not satisfy the performance requirements of this drawing.
- (3) Some of CAGE 5BG68 PIN's have two asterisk in place of the finish designator.

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| DESC drawing PIN 84103 (1) | Vendor similar designation or type number (2) (3) | DESC drawing PIN 84103 (1) | Vendor similar designation or type number (2) (3) | Vendor CAGE | Vendor name and address   |
|----------------------------|---|----------------------------|---|-------------|---|
| -01*                       | 40-5009-2.80                                      | -25*                       | 40-5012-2.80                                      | 61081       | Birtcher – A Division of Pentair Electronic Packaging<br>7328 Trade Street<br>San Diego, CA 92121-3410<br><br>Telephone: (858) 740-2400<br>Facsimile: (858) 740-2430<br><br>URL: <a href="http://www.birtcherproducts.com">www.birtcherproducts.com</a> |
| -02*                       | 40-5009-3.00                                      | -26*                       | 40-5012-3.00                                      |             |   |
| -03*                       | 40-5009-3.50                                      | -27*                       | 40-5012-3.50                                      |             |   |
| -04*                       | 40-5009-3.80                                      | -28*                       | 40-5012-3.80                                      |             |   |
| -05*                       | 40-5009-4.80                                      | -29*                       | 40-5012-4.80                                      |             |   |
| -06*                       | 40-5009-5.30                                      | -30*                       | 40-5012-5.30                                      |             |   |
| -07*                       | 40-5009-5.80                                      | -31*                       | 40-5012-5.80                                      |             |   |
| -08*                       | 40-5010-2.80                                      | -32*                       | 41-1002-2.80                                      |             |   |
| -09*                       | 40-5010-3.00                                      | -33*                       | 41-1002-3.80                                      |             |   |
| -10*                       | 40-5010-3.50                                      | -34*                       | 41-1002-4.80                                      |             |   |
| -11*                       | 40-5010-3.80                                      | -35*                       | 40-5009-5.50                                      |             |   |
| -12*                       | 40-5010-4.80                                      | -36*                       | 40-5009-6.10                                      |             |   |
| -13*                       | 40-5010-5.30                                      | -37*                       | 40-5009-6.70                                      |             |   |
| -14*                       | 40-5010-5.80                                      | -38*                       | 42-1014-2.80                                      |             |   |
| -15*                       | 41-1015-2.80                                      | -39*                       | 42-1014-3.00                                      |             |   |
| -16*                       | 41-1015-3.80                                      | -40*                       | 42-1014-3.50                                      |             |   |
| -17*                       | 41-1015-4.80                                      | -41*                       | 42-1014-3.80                                      |             |   |
| -18*                       | 40-5011-2.80                                      | -42*                       | 42-1014-4.80                                      |             |   |
| -19*                       | 40-5011-3.00                                      | -43*                       | 42-1014-5.30                                      |             |   |
| -20*                       | 40-5011-3.50                                      | -44*                       | 42-1014-5.80                                      |             |   |
| -21*                       | 40-5011-3.80                                      | -45*                       | 41-1002-3.00                                      |             |   |
| -22*                       | 40-5011-4.80                                      | -46*                       | 41-1002-3.50                                      |             |   |
| -23*                       | 40-5011-5.30                                      | -47*                       | 41-1002-4.00                                      |             |   |
| -24*                       | 40-5011-5.80                                      | -48*                       | 41-1002-4.50                                      |             |   |
|                            |   | -49*                       | 41-1002-5.00                                      |             |   |

- (1) Parts must be purchased to this DESC PIN to assure that all performance requirements and inspections are met. The asterisk (\*) denotes finish (see 3.3).
- (2) Do not use vendor PIN's for acquisition.
- (3) CAGE 18915 card holders are supplied unassembled.

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| DESC drawing PIN 84103 (1) | Vendor similar designation or type number (2) (3) | DESC drawing PIN 84103 (1) | Vendor similar designation or type number (2) (3) | Vendor CAGE | Vendor name and address  |
|----------------------------|---|----------------------------|---|-------------|--|
| -01*                       | 225CR2.80H  | -25*                       | V225-2253-2.80                                    | 61081       | Calmark – A Division of Pentair<br>Electronic Packaging<br>7328 Trade Street<br>San Diego, CA 92121-3410<br><br>Telephone: (858) 740-2400<br>Facsimile: (858) 740-2430<br><br>Electronic mail: <a href="mailto:sales@calmark.com">sales@calmark.com</a><br>URL: <a href="http://www.calmark.com">www.calmark.com</a> |
| -02*                       | 225CR3.00H  | -26*                       | V225-2253-3.00                                    |             |  |
| -03*                       | 225CR3.50H  | -27*                       | V225-2253-3.50                                    |             |  |
| -04*                       | 225CR3.80H  | -28*                       | V225-2253-3.80                                    |             |  |
| -05*                       | 225CR4.80H  | -29*                       | V225-2253-4.80                                    |             |  |
| -06*                       | 225CR5.30H  | -30*                       | V225-2253-5.30                                    |             |  |
| -07*                       | 225CR5.80H  | -31*                       | V225-2253-5.80                                    |             |  |
| -08*                       | V225CR2.80H                                       | -32*                       | 240-1078-2.80H                                    |             |  |
| -09*                       | V225CR3.00H                                       | -33*                       | 240-1078-3.80H                                    |             |  |
| -10*                       | V225CR3.50H                                       | -34*                       | 240-1078-4.80H                                    |             |  |
| -11*                       | V225CR3.80H                                       | -35*                       | 225CR5.50H  |             |  |
| -12*                       | V225CR4.80H                                       | -36*                       | 225CR6.10H  |             |  |
| -13*                       | V225CR5.30H                                       | -37*                       | 225CR6.70H  |             |  |
| -14*                       | V225CR5.80H                                       | -38*                       | 230-2.80H   |             |  |
| -15*                       | W240-2.80H  | -39*                       | 230-3.00H   |             |  |
| -16*                       | W240-3.80H  | -40*                       | 230-3.50H   |             |  |
| -17*                       | W240-4.80H  | -41*                       | 230-3.80H   |             |  |
| -18*                       | 225-2253-2.80                                     | -42*                       | 230-4.80H   |             |  |
| -19*                       | 225-2253-3.00                                     | -43*                       | 230-5.30H   |             |  |
| -20*                       | 225-2253-3.50                                     | -44*                       | 230-5.80H   |             |  |
| -21*                       | 225-2253-3.80                                     | -45*                       | 240-1078-3.00H                                    |             |  |
| -22*                       | 225-2253-4.80                                     | -46*                       | 240-1078-3.50H                                    |             |  |
| -23*                       | 225-2253-5.30                                     | -47*                       | 240-1078-4.00H                                    |             |  |
| -24*                       | 225-2253-5.80                                     | -48*                       | 240-1078-4.50H                                    |             |  |
|                            |   | -49*                       | 240-1078-5.00H                                    |             |  |

- (1) Parts must be purchased to this DESC PIN to assure that all performance requirements and inspections are met. The asterisk (\*) denotes finish (see 3.3).
- (2) Do not use vendor PIN's for acquisition. Items acquired to this number may not satisfy the performance requirements of this drawing.
- (3) CAGE 61081 card holders are supplied assembled.

|  |                             |   |                                    |
|--|-----------------------------|---|------------------------------------|
| <b>DEFENSE ELECTRONICS SUPPLY CENTER</b><br><b>DAYTON, OH 45444-5000</b> | <b>SIZE</b><br><br><b>A</b> | <b>CODE IDENT NO.</b><br><br><b>14933</b> | <b>DWG NO.</b><br><br><b>84103</b> |
|  |                             | <b>REV J</b>                              | <b>PAGE 17</b>                     |

| DESC drawing PIN 84103 (1) | Vendor similar designation or type number (2) (3) | DESC drawing PIN 84103 (1) | Vendor similar designation or type number (2) (3) | Vendor CAGE | Vendor name and address  |
|----------------------------|---|----------------------------|---|-------------|--|
| -01*                       | 426B-280RS*                                       | -25*                       | 426B-1009-280RS*-AV                               | 3E7U8       | Wakefield Solutions<br>200 Towerview Court<br>Cary, NC 27513<br><br>Telephone: (919) 469-2004<br>Facsimile: (919) 469-2827<br><br>E-mail:<br><a href="mailto:wedgelocks@wakefield.com">wedgelocks@wakefield.com</a><br><br>URL: <a href="http://www.wakefield.com">www.wakefield.com</a> |
| -02*                       | 426B-300RS*                                       | -26*                       | 426B-1009-300RS*-AV                               |             |  |
| -03*                       | 426B-350RS*                                       | -27*                       | 426B-1009-350RS*-AV                               |             |  |
| -04*                       | 426B-380RS*                                       | -28*                       | 426B-1009-380RS*-AV                               |             |  |
| -05*                       | 426B-480RS*                                       | -29*                       | 426B-1009-480RS*-AV                               |             |  |
| -06*                       | 426B-530RS*                                       | -30*                       | 426B-1009-530RS*-AV                               |             |  |
| -07*                       | 426B-580RS*                                       | -31*                       | 426B-1009-580RS*-AV                               |             |  |
| -08*                       | 426B-280RS*-V                                     | -32*                       | 418B-1002-280RS*-WA                               |             |  |
| -09*                       | 426B-300RS*-V                                     | -33*                       | 418B-1002-380RS*-WA                               |             |  |
| -10*                       | 426B-350RS*-V                                     | -34*                       | 418B-1002-480RS*-WA                               |             |  |
| -11*                       | 426B-380RS*-V                                     | -35*                       | 426B-550RS*                                       |             |  |
| -12*                       | 426B-480RS*-V                                     | -36*                       | 426B-610RS*                                       |             |  |
| -13*                       | 426B-530RS*-V                                     | -37*                       | 426B-670RS*                                       |             |  |
| -14*                       | 426B-580RS*-V                                     | -38*                       | 422BH-280RS*                                      |             |  |
| -15*                       | 418B-280RS*-W                                     | -39*                       | 422BH-300RS*                                      |             |  |
| -16*                       | 418B-380RS*-W                                     | -40*                       | 422BH-350RS*                                      |             |  |
| -17*                       | 418B-480RS*-W                                     | -41*                       | 422BH-380RS*                                      |             |  |
| -18*                       | 426B-1009-280RS*-A                                | -42*                       | 422BH-480RS*                                      |             |  |
| -19*                       | 426B-1009-300RS*-A                                | -43*                       | 422BH-530RS*                                      |             |  |
| -20*                       | 426B-1009-350RS*-A                                | -44*                       | 422BH-580RS*                                      |             |  |
| -21*                       | 426B-1009-380RS*-A                                | -45*                       | 418B-1002-300RS*-WA                               |             |  |
| -22*                       | 426B-1009-480RS*-A                                | -46*                       | 418B-1002-350RS*-WA                               |             |  |
| -23*                       | 426B-1009-530RS*-A                                | -47*                       | 418B-1002-400RS*-WA                               |             |  |
| -24*                       | 426B-1009-580RS*-A                                | -48*                       | 418B-1002-450RS*-WA                               |             |  |
|                            |   | -49*                       | 418B-1002-500RS*-WA                               |             |  |

- (1) Parts must be purchased to this DESC PIN to assure that all performance requirements and inspections are met. The asterisk (\*) denotes finish (see 3.3).
- (2) Do not use vendor PIN's for acquisition.
- (3) CAGE 3E7U8 PIN's have an asterisk in place of the finish designator.

|  |                             |   |                                    |
|--|-----------------------------|---|------------------------------------|
| <b>DEFENSE ELECTRONICS SUPPLY CENTER</b><br><b>DAYTON, OH 45444-5000</b> | <b>SIZE</b><br><br><b>A</b> | <b>CODE IDENT NO.</b><br><br><b>14933</b> | <b>DWG NO.</b><br><br><b>84103</b> |
|  |                             | REV J                                     | PAGE 18                            |