

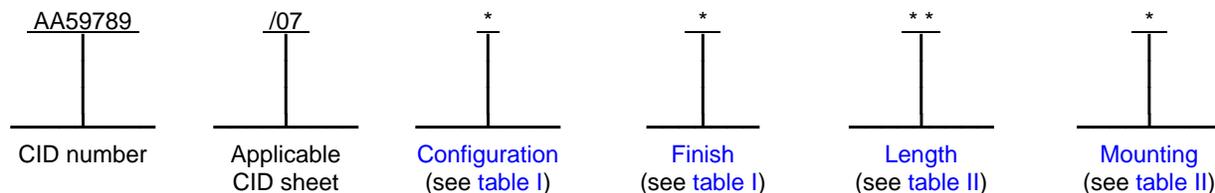
COMMERCIAL ITEM DESCRIPTION
SPECIFICATION SHEET

HOLDER, ELECTRICAL CARD, WEDGE RETAINERS, 5 PIECE, FOR COLD PLATE APPLICATIONS,
.195 X .250 INCH BODY SIZE, SCREW ACTUATED

The General Services Administration has authorized the use of this commercial item description for all federal agencies.

The complete requirements for procuring electrical card holders described herein shall consist of this document and the latest issue in effect of [A-A-59789](#).

CLASSIFICATION/PART IDENTIFICATION NUMBER (PIN). This commercial item description (CID) specification sheet uses a classification system which is included in the PIN as shown in the following example (see [notes](#)).



Example: AA59789/07DE30T is the PIN for an electroless nickel finished, 2.8 inch (71.1 mm) long card holder. The card holder also features three tapped mounting holes for use with 0-80 UNF 2B fasteners and a screw self-locking element for added resistance to loosening.

SALIENT CHARACTERISTICS.

Performance. Card holders shall hold the circuit card firmly in place and prevent loosening or movement as a result from shock and vibration while providing a thermal transfer path from the circuit card assembly to the cold plate.

Interface and physical dimensions. The card holders supplied to this CID specification sheet shall be as specified herein and meet the general requirements specified in CID [A-A-59789](#).

Material. Unless otherwise specified herein, the card holder materials shall be as specified in [A-A-59789](#).

Actuating screw hex drive socket. The dimension for hex drive socket shall be .094 inch (2.38 mm) across flats for mounting options "M", "R", "S", "T", and "U".

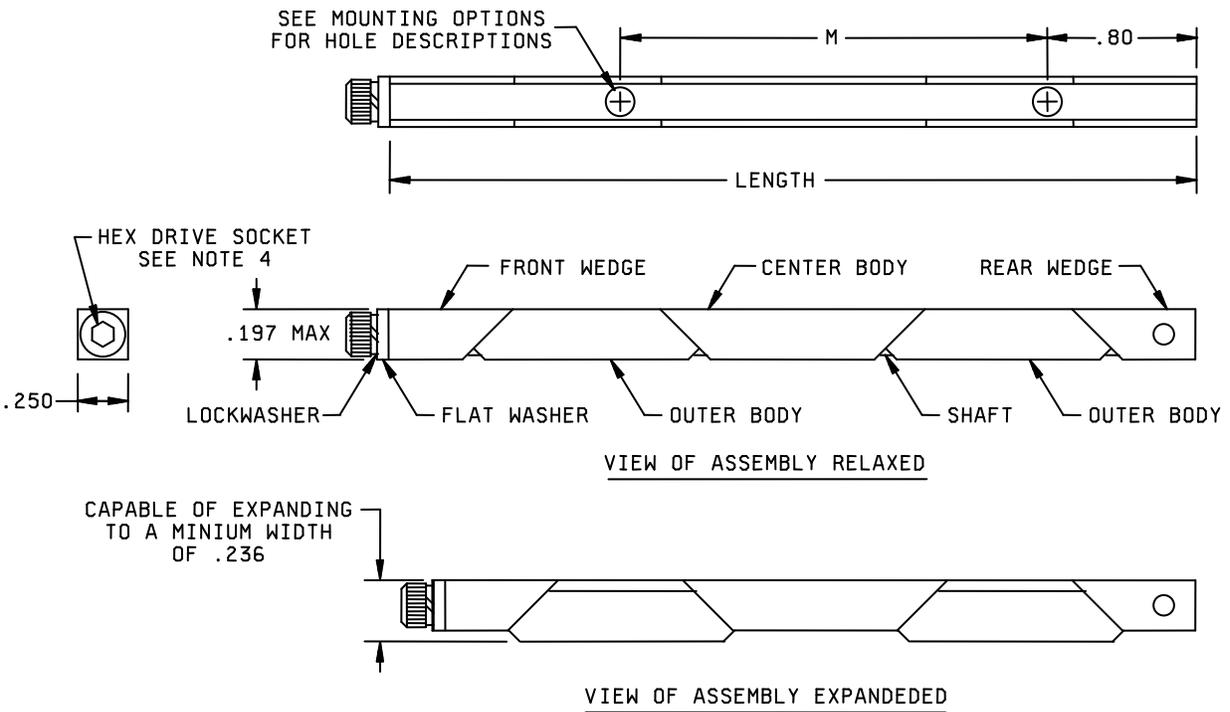
Cold plate slot width. The recommend cold plate slot width to accommodate the circuit card assembly with attached card holder is .220 inch (5.59 mm) plus the thickness of the printed board of the circuit card assembly (see [A-A-59789](#)).

Installation torque. The recommended nominal installation torque is follows: 6 inch-pounds (0.7 N-m) for card holders of configuration "C" or "E" and 7 to 8 inch-pounds (0.8 to 0.9 N-m) for assemblies of configurations "L" or "D".

Configuration. The configuration of a card holder shall be as specified in [table I](#). The details of a particular configuration consist of those on figure 1, and may include those on figures 2 and 3.

TABLE I. Configuration.

| Configuration | Applicable figures | Hardware options |
|---------------|--------------------|---|
| C | 1 | No added options |
| L | 1 and 2 | Screw self-locking element |
| E | 1 and 3 | Additional mounting hole |
| D | 1, 2, and 3 | Screw self-locking element and additional mounting hole |



| Inches | mm | Inches | mm | Inches | mm | Inches | mm |
|--------|------|--------|------|--------|------|--------|-------|
| .197 | 5.00 | .236 | 5.99 | .250 | 6.35 | .80 | 20.32 |

NOTES:

1. Dimensions are in inches. Millimeter equivalents are given for general information only.
2. Unless otherwise specified, tolerances are for ± 0.02 inch (0.51 mm) for two place decimals and ± 0.010 inch (0.25 mm) for three place decimals.
3. Tolerance for the hole spacing (dimension M) is ± 0.005 inch (0.51 mm).
4. The across flats dimension for hex drive socket shall be .094 inch (2.38 mm).

FIGURE 1. Relaxed and expanded dimensions.

Finish. The finish designator shall be as specified in A-A-59789. The finishes available for this CID specification sheet are as follows: "B" (black anodize), "E" (electroless nickel), "H" (hard black anodize) or "R" (clear chemical film).

Length, expanded and relaxed dimensions. The length designator shall be as specified in A-A-59789 and the lengths available for this CID specification sheet are listed in table II. The length, expanded, and relaxed dimensions shall be as specified on figure 1.

TABLE II. Additional assembly dimensions (see figure 1). 1/

| PIN length designator | Dimension "Length" ±.02 (0.5) | Dimension "M" ±.01 (0.3) | Dimension "M/2" ±.02 (0.5) |
|-----------------------|----------------------------------|-----------------------------|-------------------------------|
| 30 | 2.80 (71.1) | .90 (22.9) | .45 (11.4) |
| 40 | 3.80 (96.5) | 1.90 (48.3) | .95 (24.1) |
| 50 | 4.80 (121.9) | 2.90 (73.7) | 1.45 (36.8) |

1/ Dimensions are in inches. Millimeters, in parenthesis, are given for information only.

Mounting. The mounting designators shall be as specified in A-A-59789. The mounting options available for this CID specification sheet are as follows: "M" (tapped metric M2.5 x 0.45 holes), "R" (rivet mount holes with counterbore and countersink), "S" (tapped 2-56 holes), "T" (tapped 0-80 holes), or "U" (tapped metric M2 x 0.4 holes). See figures 1 and 3 for mounting hole spacing requirements.

Rivet mounting holes. The holes used for rivet mounting shall be .068/.073 inch (1.73/1.85 mm) diameter, countersunk 100 degrees by .060 inch (1.52 mm) deep.

Rivets. This card holder uses rivet type A as specified in A-A-59789 when rivet mounting is used.

Hardware options. Card holders can have the following hardware options: No hardware options added (see figure 1), screw self lock element (see figure 2), additional mounting hole (see figure 3), or screw self lock element and additional mounting hole (see figures 2 and 3). See table I for the correct PIN configuration identifier.

No hardware options added. The base configuration of the card holder is as depicted by figure 1. Card holders not requiring any added hardware options shall include configuration identifier "C" in the PIN (see classification, notes, and table I).

Screw self-locking element (see figure 2). The use of a screw self-locking element will provide prevailing torque for resistance to loosening from shock vibration. The screw self-locking element shall be as specified in A-A-59789. Card holders requiring a screw self-locking element shall include configuration identifier "L" in the PIN (see classification, notes, and table I).

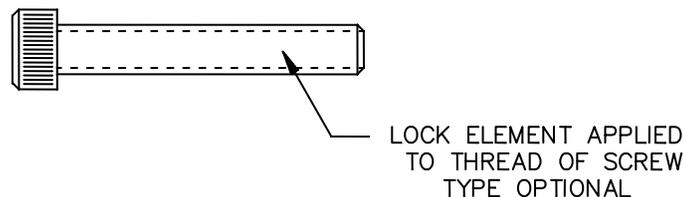


FIGURE 2. Screw self-locking element details.

Additional mounting hole (see figure 3). Card holders requiring an additional mounting hole shall include configuration identifier "E" in the PIN (see [classification](#), [notes](#), and [table I](#)).

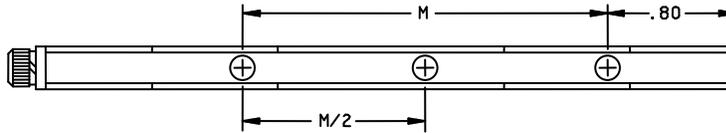


FIGURE 3. Additional mounting hole details.

Screw self-locking element and additional mounting hole. Card holders requiring a screw self-locking element and an additional mounting hole options shall include configuration identifier "D" in the PIN (see [classification](#), [notes](#), and [table I](#)).

NOTES.

PIN. The PIN should be used for Government purposes to buy commercial products to this CID specification sheet. See the classification section for PIN format example.

Source of documents.

Commercial Item Description

[A-A-59789](#) – Holder, Electrical Card, Wedge Retainers, 5 Piece, For Cold Plate Applications, General Requirements For.

(Copies of these documents are available online at <https://assist.daps.dla.mil/quicksearch/> or <https://assist.daps.dla.mil/> or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.)

Other Publications

AEROSPACE INDUSTRIES ASSOCIATION (AIA)

AIA/NAS 1283 – Fasteners, Male Threaded, Self-locking.

(Application for copies should be addressed to the Aerospace Industries Association, 1250 Eye Street, NW, Suite 1200, Washington, DC 20005-3924 or at URL: <http://www.aia-aerospace.org>.)

Ordering data. Ordering data is as specified in [A-A-59789](#).

Commercial products. As part of the market analysis and research effort, this CID specification sheet was coordinated with the following manufacturers of commercial products. At the time of CID specification sheet preparation and coordination, these manufacturers were known to have commercial products that would meet the requirements of this CID specification sheet. (NOTE: This information should not be considered as a list of approved manufacturers or be used to restrict procurement to only the manufacturers shown.)

| <u>Manufacturer CAGE</u> | <u>Manufacturer name and address</u> | <u>Manufacturer contact information</u> |
|--------------------------|---|---|
| 61081 | Calmark – A Division of Pentair Technical Products 7328 Trade Street San Diego, CA 92121–3410 | Telephone: (858) 740–2400 Toll Free: (800) 854–7086 Facsimile: (858) 740–2430 Electronic mail: sales@calmark.com URL: www.calmark.com |
| 5BG68 | Card Locks Unlimited, Inc. 2310 E. Orangethorpe Avenue Anaheim, CA 92806–1231 | Telephone: (714) 738–6194 Facsimile: (714) 446–0119 E-mail: sales@clumfg.com URL: www.clumfg.com |

Part number supersession data. This CID specification sheet PINs supersedes the following manufacturer's part numbers as shown in [table III](#). The CID PINs listed in [table III](#) are only for length designator "50". See [table IV](#) for CID PIN construction using other available lengths for this CID specification sheet. This information is being provided to assist in reducing proliferation in the Government inventory system.

TABLE III. Commercial part number supersession data.

| PIN designator AA59789/07 | Vendor similar designator or type part number ^{1/} CAGE 61081 | Vendor similar designator or type part number ^{1/} CAGE 5BG68 |
|------------------------------|--|--|
| CB50M | A267–4.80TM2.5 | 5267BA–4.80TM2.5 |
| CB50R | A267–4.80H | 5267BA–4.80H |
| CB50S | A267–4.80T2 | 5267BA–4.80T2 |
| CB50T | A267–4.80T0 | 5267BA–4.80T0 |
| CB50U | A267–4.80TM2 | 5267BA–4.80TM2 |
| LB50M | A267–4.80TM2.5L | 5267BA–4.80TM2.5L |
| LB50R | A267–4.80HL | 5267BA–4.80HL |
| LB50S | A267–4.80T2L | 5267BA–4.80T2L |
| LB50T | A267–4.80T0L | 5267BA–4.80T0L |
| LB50U | A267–4.80TM2L | 5267BA–4.80TM2L |
| EB50M | A267–4.80ETM2.5 | 5267BA–4.80ETM2.5 |
| EB50R | A267–4.80EH | 5267BA–4.80EH |
| EB50S | A267–4.80ET2 | 5267BA–4.80ET2 |
| EB50T | A267–4.80ET0 | 5267BA–4.80ET0 |
| EB50U | A267–4.80ETM2 | 5267BA–4.80ETM2 |
| DB50M | A267–4.80ETM2.5L | 5267BA–4.80ETM2.5L |
| DB50R | A267–4.80EHL | 5267BA–4.80EHL |
| DB50S | A267–4.80ET2L | 5267BA–4.80ET2L |
| DB50T | A267–4.80ET0L | 5267BA–4.80ET0L |
| DB50U | A267–4.80ETM2L | 5267BA–4.80ETM2L |

See footnote at end of table.

TABLE III. Commercial part number supersession data – Continued.

| PIN designator AA59789/07 | Vendor similar designator or type part number <u>1</u> / CAGE 61081 | Vendor similar designator or type part number <u>1</u> / CAGE 5BG68 |
|------------------------------|---|---|
| CE50M | EN267-4.80TM2.5 | 5267EN-4.80TM2.5 |
| CE50R | EN267-4.80H | 5267EN-4.80H |
| CE50S | EN267-4.80T2 | 5267EN-4.80T2 |
| CE50T | EN267-4.80T0 | 5267EN-4.80T0 |
| CE50U | EN267-4.80TM2 | 5267EN-4.80TM2 |
| LE50M | EN267-4.80TM2.5L | 5267EN-4.80TM2.5L |
| LE50R | EN267-4.80HL | 5267EN-4.80HL |
| LE50S | EN267-4.80T2L | 5267EN-4.80T2L |
| LE50T | EN267-4.80T0L | 5267EN-4.80T0L |
| LE50U | EN267-4.80TM2L | 5267EN-4.80TM2L |
| EE50M | EN267-4.80ETM2.5 | 5267EN-4.80ETM2.5 |
| EE50R | EN267-4.80EH | 5267EN-4.80EH |
| EE50S | EN267-4.80ET2 | 5267EN-4.80ET2 |
| EE50T | EN267-4.80ET0 | 5267EN-4.80ET0 |
| EE50U | EN267-4.80ETM2 | 5267EN-4.80ETM2 |
| DE50M | EN267-4.80ETM2.5L | 5267EN-4.80ETM2.5 |
| DE50S | EN267-4.80EHL | 5267EN-4.80EHL |
| DE50R | EN267-4.80ET2L | 5267EN-4.80ET2L |
| DE50T | EN267-4.80ET0L | 5267EN-4.80ET0L |
| DE50U | EN267-4.80ETM2L | 5267EN-4.80ETM2L |
| CH50M | HA267-4.80TM2.5 | 5267BH-4.80TM2.5 |
| CH50R | HA267-4.80H | 5267BH-4.80H |
| CH50S | HA267-4.80T2 | 5267BH-4.80T2 |
| CH50T | HA267-4.80T0 | 5267BH-4.80T0 |
| CH50U | HA267-4.80TM2 | 5267BH-4.80TM2 |
| LH50M | HA267-4.80TM2.5L | 5267BH-4.80TM2.5L |
| LH50R | HA267-4.80HL | 5267BH-4.80HL |
| LH50S | HA267-4.80T2L | 5267BH-4.80ET2L |
| LH50T | HA267-4.80T0L | 5267BH-4.80ET0L |
| LH50U | HA267-4.80TM2L | 5267BH-4.80ETM2L |

See footnote at end of table.

TABLE III. Commercial part number supersession data – Continued.

| PIN designator AA59789/07 | Vendor similar designator or type part number <u>1/</u> CAGE 61081 | Vendor similar designator or type part number <u>1/</u> CAGE 5BG68 |
|------------------------------|--|--|
| EH50M | HA267-4.80ETM2.5 | 5267BH-4.80ETM2.5 |
| EH50R | HA267-4.80EH | 5267BH-4.80EH |
| EH50S | HA267-4.80ET2 | 5267BH-4.80ET2 |
| EH50T | HA267-4.80ET0 | 5267BH-4.80ET0 |
| EH50U | HA267-4.80ETM2 | 5267BH-4.80ETM2 |
| DH50M | HA267-4.80ETM2.5L | 5267BH-4.80ETM2.5L |
| DH50S | HA267-4.80EHL | 5267BH-4.80EHL |
| DH50R | HA267-4.80ET2L | 5267BH-4.80ET2L |
| DH50T | HA267-4.80ET0L | 5267BH-4.80ET0L |
| DH50U | HA267-4.80ETM2L | 5267BH-4.80ETM2L |
| CR50M | R267-4.80TM2.5 | 5267CC-4.80TM2.5 |
| CR50R | R267-4.80H | 5267CC-4.80H |
| CR50S | R267-4.80T2 | 5267CC-4.80T2 |
| CR50T | R267-4.80T0 | 5267CC-4.80T0 |
| CR50U | R267-4.80TM2 | 5267CC-4.80TM2 |
| LR50M | R267-4.80TM2.5L | 5267CC-4.80TM2.5L |
| LR50R | R267-4.80HL | 5267CC-4.80HL |
| LR50S | R267-4.80T2L | 5267CC-4.80T2L |
| LR50T | R267-4.80T0L | 5267CC-4.80T0L |
| LR50U | R267-4.80TM2L | 5267CC-4.80TM2L |
| ER50M | R267-4.80ETM2.5 | 5267CC-4.80ETM2.5 |
| ER50R | R267-4.80EH | 5267CC-4.80EH |
| ER50S | R267-4.80ET2 | 5267CC-4.80ET2 |
| ER50T | R267-4.80ET0 | 5267CC-4.80ET0 |
| ER50U | R267-4.80ETM2 | 5267CC-4.80ETM2 |
| DR50M | R267-4.80ETM2.5L | 5267CC-4.80ETM2.5L |
| DR50R | R267-4.80EHL | 5267CC-4.80EHL |
| DR50S | R267-4.80ET2L | 5267CC-4.80ET2L |
| DR50T | R267-4.80ET0L | 5267CC-4.80ET0L |
| DR50U | R267-4.80ETM2L | 5267CC-4.80ETM2L |

See footnote at end of table.

TABLE III. Commercial part number supersession data – Continued.

- 1/ The manufacturer's part number shall not be used for procurement to the requirements of this CID specification sheet. At the time of preparation of this CID specification sheet, the aforementioned commercial products were reviewed and could be replaced by the CID PIN shown. For actual part marking requirements, see the marking paragraph in [A-A-59789](#).

TABLE IV. Example of PIN with available length designators.

| PIN designator AA59789/07 | Vendor similar designator or type part number <u>1/</u> <u>2/</u> CAGE 61081 | Vendor similar designator or type part number <u>1/</u> <u>2/</u> CAGE 5BG68 |
|------------------------------|--|--|
| DE30T | EN267-2.80ET0L | 5267EN-2.80ET0L |
| DE40T | EN267-3.80ET0L | 5267EN-3.80ET0L |
| DE50T | EN267-4.80ET0L | 5267EN-4.80ET0L |

- 1/ The manufacturer's part number shall not be used for procurement to the requirements of this CID specification sheet. At the time of preparation of this CID specification sheet, the aforementioned commercial products were reviewed and could be replaced by the CID PIN shown. For actual part marking requirements, see the marking paragraph in [A-A-59789](#).
- 2/ Other lengths are available on request.

MILITARY INTERESTS:

Custodians:
 Army – CR
 Navy – EC
 Air Force – 85
 DLA – CC

Review Activity:
 Air Force – 99

CIVIL AGENCY COORDINATING ACTIVITY:

GSA – FAS
 Preparing Activity:
 DLA – CC
 Project 5998-2011-007

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.daps.dla.mil>.