

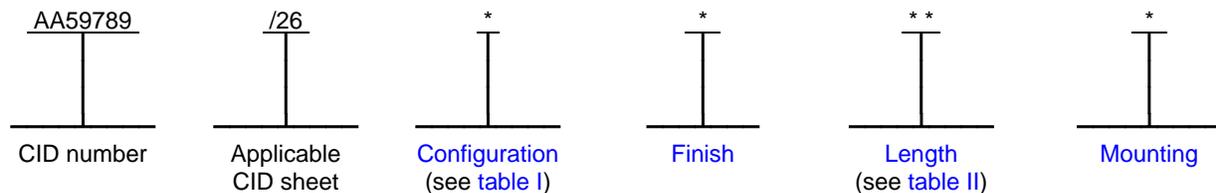
COMMERCIAL ITEM DESCRIPTION
SPECIFICATION SHEET

HOLDER, ELECTRICAL CARD, WEDGE RETAINERS, 5 PIECE, FOR COLD PLATE APPLICATIONS,
.225 X .225 INCH BODY SIZE, SCREW ACTUATED, WITH CAPTIVE SCREW AND VISUAL LOCK INDICATION

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](#) herein).



Example: AA59789/10LH50S is the PIN for a hard black anodize finished, 4.8 inch (121.9 mm) long card holder with
visual lock indication. The card holder also features two tapped mounting holes for use with 2-56 UNC 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 its installed position and prevent loosening or
movement as a result of shock and vibration. It shall also provide 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](#). Card holders shall have a screw retention
feature to prevent unintentional disassembly of the card holder. Card holders shall also have a visual indicator to
show when the assembly is in its relaxed (unlocked) and expanded (locked) state.

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".

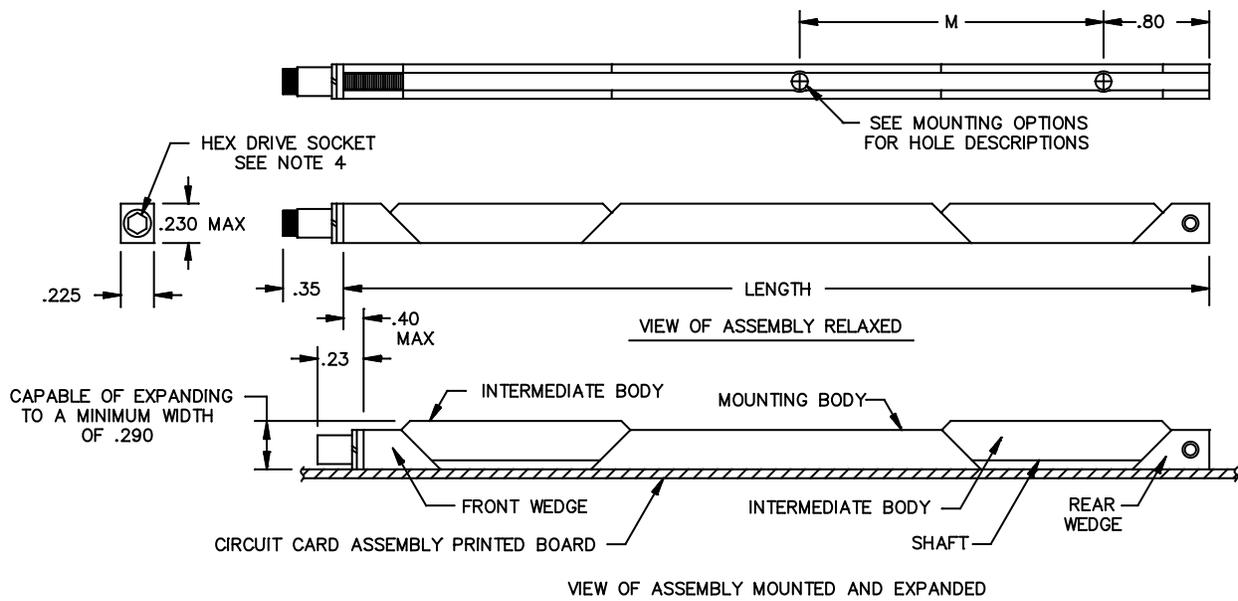
Cold plate slot width. The recommend cold plate slot width to accommodate the circuit card assembly with attached
card holder is .250 inch (6.35 mm) plus the thickness of the printed board of the circuit card assembly (see
[A-A-59789](#)).

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 [figures 1, 2 and 3](#), and may include those on [figures 4 and 5](#).

TABLE I. Configuration.

Configuration	Applicable figures	Hardware options
C	1, 2 and 3	No added options
L	1, 2, 3 and 4	Screw self-locking element
E	1, 2, 3 and 5	Additional mounting hole
D	1, 2, 3, 4 and 5	Screw self-locking element and additional mounting hole



Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
.225	5.71	.230	5.84	.290	7.37	.35	8.9	.80	20.3

NOTES:

1. Dimensions are in inches. Millimeter equivalents are given for general information only.
2. Unless otherwise specified, tolerances are ± 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 is ± 0.005 inch (0.13 mm).
4. The across flats dimension for hex drive socket shall be .094 inch (2.38 mm).

FIGURE 1. Relaxed and expanded dimensions.

Captive screw (see figure 2). The captive screw feature prevents the unintentional disassembly of screw from front wedge.

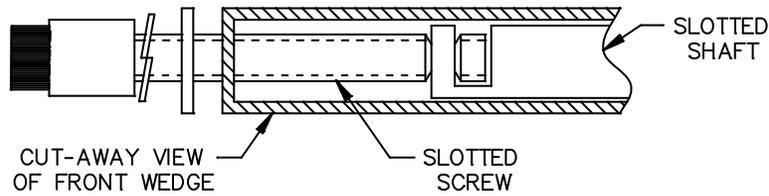


FIGURE 2. Captive screw details.

Visual lock indicator (see figure 3). Card holders shall have a visual indicator to show when the card holder is in its relaxed state (unlocked). When the card holder is in the relaxed state (unlocked), the end of the actuating screw shall display a red band on the side of the screw. When the actuating screw on the card holder has been tightened so that the assembly is in the expanded state (locked), this red band shall be concealed.

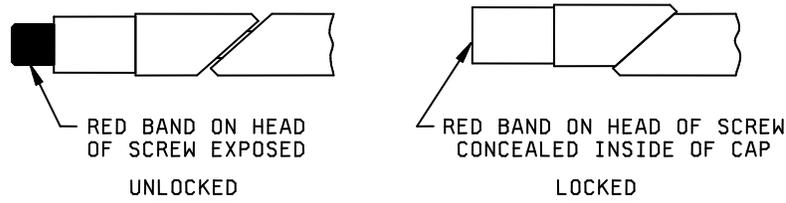


FIGURE 3. Visual lock indicator.

TABLE II. Additional card holder 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)
60	5.80 (147.3)	3.90 (99.1)	1.95 (49.5)
70	6.80 (172.7)	4.90 (124.5)	2.45 (62.2)
80	7.80 (198.1)	5.90 (149.9)	2.95 (74.9)
90	8.80 (223.5)	6.90 (175.3)	3.45 (87.6)

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

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), or "H" (hard black anodize).

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.

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 [5](#) 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, screw self-lock element (see [figure 4](#)), additional mounting hole (see [figure 5](#)) or screw self lock element and additional mounting hole. See [table I](#) for the correct PIN configuration identifier for the hardware option needed.

Screw self-locking element (see figure 4). The use of a screw self-locking element will provide prevailing torque for resistance to loosening from shock vibration. Card holders requiring a screw self-locking element shall include configuration identifier "L" in the PIN (see [classification](#) and [table I](#)).

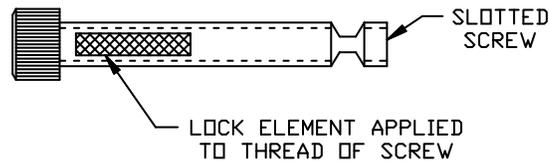


FIGURE 4. Screw self-locking element details.

Additional mounting hole (see figure 5). Card holders requiring an additional mounting hole shall include configuration identifier "E" in the PIN (see [classification](#) and [table I](#)).

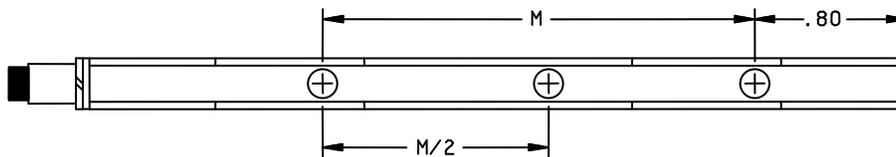


FIGURE 5. Additional mounting hole details.

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

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 "80". 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 AA59789/26	Vendor similar designator or type part number 1/ CAGE 61081	Vendor similar designator or type part number 1/ CAGE 5BG68
CB80M	VA265-7.80TM2.5K	5265VBA-7.80TM2.5K
CB80R	VA265-7.80HK	5265VBA-7.80HK
CB80S	VA265-7.80T2K	5265VBA-7.80T2K
CB80T	VA265-7.80T0K	5265VBA-7.80T0K
CB80U	VA265-7.80TM2K	5265VBA-7.80TM2K
EB80M	VA265-7.80ETM2.5K	5265VBA-7.80ETM2.5K
EB80R	VA265-7.80EHK	5265VBA-7.80EHK
EB80S	VA265-7.80ET2K	5265VBA-7.80ET2K
EB80T	VA265-7.80ET0K	5265VBA-7.80ET0K
EB80U	VA265-7.80ETM2K	5265VBA-7.80ETM2K
LB80M	VA265-7.80TM2.5LK	5265VBA-7.80TM2.5LK
LB80R	VA265-7.80HLK	5265VBA-7.80HLK
LB80S	VA265-7.80T2LK	5265VBA-7.80T2LK
LB80T	VA265-7.80T0LK	5265VBA-7.80T0LK
LB80U	VA265-7.80TM2LK	5265VBA-7.80TM2LK
DB80M	VA265-7.80ETM2.5LK	5265VBA-7.80ETM2.5LK
DB80S	VA265-7.80EHLK	5265VBA-7.80EHLK
DB80R	VA265-7.80ET2LK	5265VBA-7.80ET2LK
DB80T	VA265-7.80ET0LK	5265VBA-7.80ET0LK
DB80U	VA265-7.80ETM2LK	5265VBA-7.80ETM2LK
CE80M	VEN265-7.80TM2.5K	5265VEN-7.80TM2.5K
CE80R	VEN265-7.80HK	5265VEN-7.80HK
CE80S	VEN265-7.80T2K	5265VEN-7.80T2K
CE80T	VEN265-7.80T0K	5265VEN-7.80T0K
CE80U	VEN265-7.80TM2K	5265VEN-7.80TM2K
EE80M	VEN265-7.80ETM2.5K	5265VEN-7.80ETM2.5K
EE80R	VEN265-7.80EHK	5265VEN-7.80EHK
EE80S	VEN265-7.80ET2K	5265VEN-7.80ET2K
EE80T	VEN265-7.80ET0K	5265VEN-7.80ET0K
EE80U	VEN265-7.80ETM2K	5265VEN-7.80ETM2K

See footnotes at end of table.

TABLE III. Commercial part number supersession data – Continued.

PIN designator AA59789/26	Vendor similar designator or type part number <u>1/</u> CAGE 61081	Vendor similar designator or type part number <u>1/</u> CAGE 5BG68
LE58M	VEN265-7.80TM2.5LK	5265VEN-7.80TM2.5LK
LE80R	VEN265-7.80HLK	5265VEN-7.80HLK
LE80S	VEN265-7.80T2LK	5265VEN-7.80T2LK
LE80T	VEN265-7.80T0LK	5265VEN-7.80T0LK
LE80U	VEN265-7.80TM2LK	5265VEN-7.80TM2LK
DE80M	VEN265-7.80ETM2.5LK	5265VEN-7.80ETM2.5LK
DE80S	VEN265-7.80EHLK	5265VEN-7.80EHLK
DE80R	VEN265-7.80ET2LK	5265VEN-7.80ET2LK
DE80T	VEN265-7.80ET0LK	5265VEN-7.80ET0LK
DE80U	VEN265-7.80ETM2LK	5265VEN-7.80ETM2LK
CH80M	VHA265-7.80TM2.5K	5265VBH-7.80TM2.5K
CH80R	VHA265-7.80HK	5265VBH-7.80HK
CH80S	VHA265-7.80T2K	5265VBH-7.80T2K
CH80T	VHA265-7.80T0K	5265VBH-7.80T0K
CH80U	VHA265-7.80TM2K	5265VBH-7.80TM2K
EH80M	VHA265-7.80ETM2.5K	5265VBH-7.80ETM2.5K
EH80R	VHA265-7.80EHK	5265VBH-7.80EHK
EH80S	VHA265-7.80ET2K	5265VBH-7.80ET2K
EH80T	VHA265-7.80ET0K	5265VBH-7.80ET0K
EH80U	VHA265-7.80ETM2K	5265VBH-7.80ETM2K
LH80M	VHA265-7.80TM2.5LK	5265VBH-7.80TM2.5LK
LH80R	VHA265-7.80HLK	5265VBH-7.80HLK
LH80S	VHA265-7.80T2LK	5265VBH-7.80T2LK
LH80T	VHA265-7.80T0LK	5265VBH-7.80T0LK
LH80U	VHA265-7.80TM2LK	5265VBH-7.80TM2LK
DH80M	VHA265-7.80ETM2.5LK	5265VBH-7.80ETM2.5LK
DH80S	VHA265-7.80EHLK	5265VBH-7.80EHLK
DH80R	VHA265-7.80ET2LK	5265VBH-7.80ET2LK
DH80T	VHA265-7.80ET0LK	5265VBH-7.80ET0LK
DH80U	VHA265-7.80ETM2LK	5265VBH-7.80ETM2LK

See footnotes 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 AA59789/26	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	EN265-2.80ET0LK	5265EN-2.80ET0LK
DE40T	EN265-3.80ET0LK	5265EN-3.80ET0LK
DE50T	EN265-4.80ET0LK	5265EN-4.80ET0LK
DE60T	EN265-5.80ET0LK	5265EN-5.80ET0LK
DE70T	EN265-6.80ET0LK	5265EN-6.80ET0LK
DE80T	EN265-7.80ET0LK	5265EN-7.80ET0LK
DE90T	EN265-8.80ET0LK	5265EN-8.80ET0LK

- 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 5998-2011-026

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>.