

[INCH-POUND]
A-A-59789/9A
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SUPERSEDING
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11 December 2006

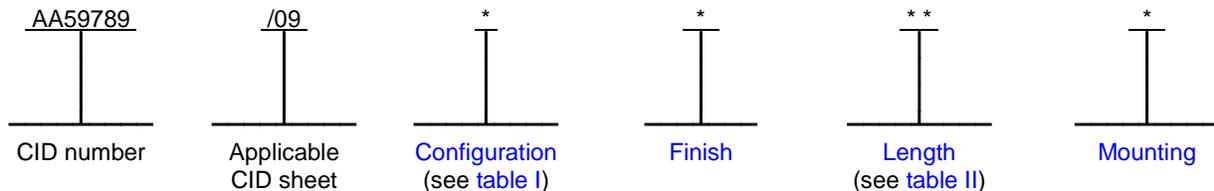
COMMERCIAL ITEM DESCRIPTION
SPECIFICATION SHEET

HOLDER, ELECTRICAL CARD, WEDGE RETAINERS, 5 PIECE, FOR COLD PLATE APPLICATIONS,
.225 X .225 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](#) herein).



Example: AA59789/09DE30T 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 providing high resistance to shock and vibration while providing maximum thermal transfer.

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 .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".

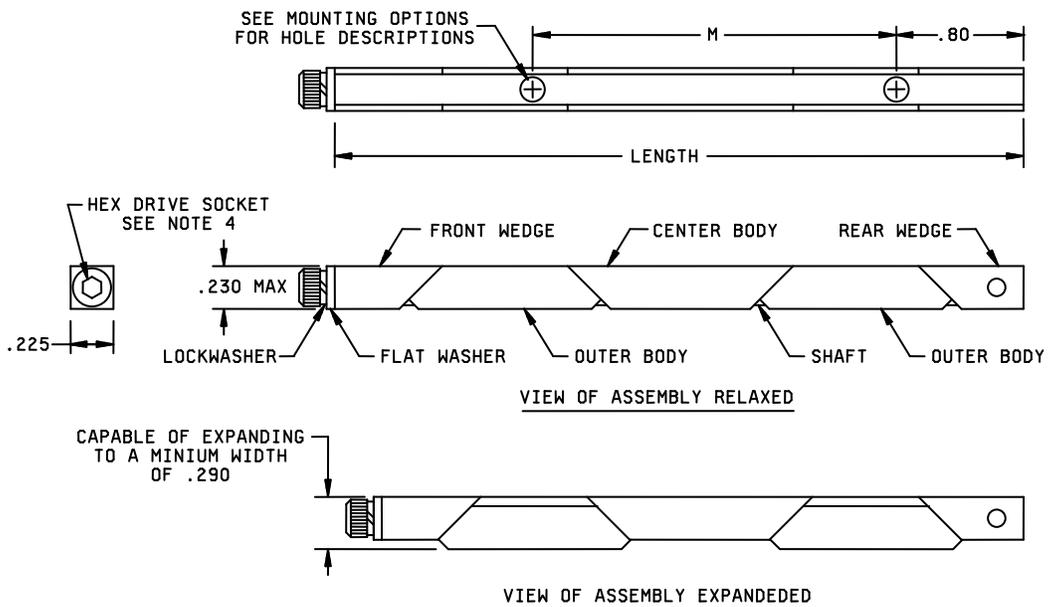
Configuration. The configuration of a card holder shall be as specified in [table I](#). The details of a particular configuration consist of those on figure 1, and may include those on figures 2 and 3.

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TABLE I. Configurations.

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
.225	5.72	.230	5.84	.290	7.37	.80	20.32

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 (0.51 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), "C" (gold chemical film), "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](#).

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)

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 [figure 1](#) 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 2](#)), additional mounting hole (see [figure 3](#)) 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 2](#)). 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 [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 table I).

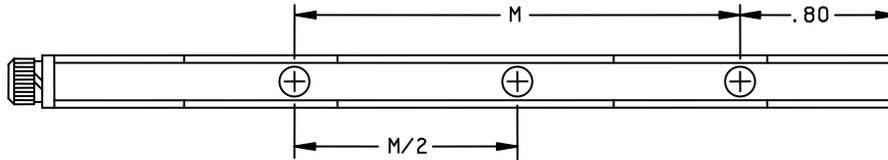


FIGURE 3. Additional mounting hole details.

Screw self-locking element and additional mounting hole. Card holders requiring a screw self-locking element and an additional mounting hole option shall include configuration identifier "D" in the PIN (see 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 <http://assist.daps.dla.mil/quicksearch/> or <http://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>
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 AA59789/09	Vendor similar designator or type part number ^{1/} CAGE 5BG68	PIN designator AA59789/09	Vendor similar designator or type part number ^{1/} CAGE 5BG68
CB50M	5265BA-4.80TM2.5	CC50M	5265CG-4.80TM2.5
CB50R	5265BA-4.80H	CC50R	5265CG-4.80H
CB50S	5265BA-4.80T2	CC50S	5265CG-4.80T2
CB50T	5265BA-4.80T0	CC50T	5265CG-4.80T0
CB50U	5265BA-4.80TM2	CC50U	5265CG-4.80TM2
CE50M	5265EN-4.80TM2.5	CH50M	5265BH-4.80TM2.5
CE50R	5265EN-4.80H	CH50R	5265BH-4.80H
CE50S	5265EN-4.80T2	CH50S	5265BH-4.80T2
CE50T	5265EN-4.80T0	CH50T	5265BH-4.80T0
CE50U	5265EN-4.80TM2	CH50U	5265BH-4.80TM2
LB50M	5265BA-4.80TM2.5L	LC50M	5265CG-4.80TM2.5L
LB50R	5265BA-4.80HL	LC50R	5265CG-4.80HL
LB50S	5265BA-4.80T2L	LC50S	5265CG-4.80T2L
LB50T	5265BA-4.80T0L	LC50T	5265CG-4.80T0L
LB50U	5265BA-4.80TM2L	LC50U	5265CG-4.80TM2L
LE50M	5265EN-4.80TM2.5L	LH50M	5265BH-4.80TM2.5L
LE50R	5265EN-4.80HL	LH50R	5265BH-4.80HL
LE50S	5265EN-4.80T2L	LH50S	5265BH-4.80T2L
LE50T	5265EN-4.80T0L	LH50T	5265BH-4.80T0L
LE50U	5265EN-4.80TM2L	LH50U	5265BH-4.80TM2L
EB50M	5265BA-4.80ETM2.5	EC50M	5265CG-4.80ETM2.5
EB50R	5265BA-4.80EH	EC50R	5265CG-4.80EH
EB50S	5265BA-4.80ET2	EC50S	5265CG-4.80ET2
EB50T	5265BA-4.80ET0	EC50T	5265CG-4.80ET0
EB50U	5265BA-4.80ETM2	EC50U	5265CG-4.80ETM2

See footnotes at end of table.

TABLE III. Commercial part number supersession data – Continued.

PIN designator AA59789/09	Vendor similar designator or type part number ^{1/} CAGE 5BG68	PIN designator AA59789/09	Vendor similar designator or type part number ^{1/} CAGE 5BG68
EB50M	5265BA-4.80ETM2.5	EC50M	5265CG-4.80ETM2.5
EB50R	5265BA-4.80EH	EC50R	5265CG-4.80EH
EB50S	5265BA-4.80ET2	EC50S	5265CG-4.80ET2
EB50T	5265BA-4.80ET0	EC50T	5265CG-4.80ET0
EB50U	5265BA-4.80ETM2	EC50U	5265CG-4.80ETM2
EE50M	5265EN-4.80ETM2.5	EH50M	5265BH-4.80ETM2.5
EE50R	5265EN-4.80EH	EH50R	5265BH-4.80EH
EE50S	5265EN-4.80ET2	EH50S	5265BH-4.80ET2
EE50T	5265EN-4.80ET0	EH50T	5265BH-4.80ET0
EE50U	5265EN-4.80ETM2	EH50U	5265BH-4.80ETM2
DB50M	5265BA-4.80ETM2.5L	DC50M	5265CG-4.80ETM2.5L
DB50S	5265BA-4.80EHL	DC50S	5265CG-4.80EHL
DB50R	5265BA-4.80ET2L	DC50R	5265CG-4.80ET2L
DB50T	5265BA-4.80ET0L	DC50T	5265CG-4.80ET0L
DB50U	5265BA-4.80ETM2L	DC50U	5265CG-4.80ETM2L
DE50M	5265EN-4.80ETM2.5L	DH50M	5265BH-4.80ETM2.5L
DE50S	5265EN-4.80EHL	DH50S	5265BH-4.80EHL
DE50R	5265EN-4.80ET2L	DH50R	5265BH-4.80ET2L
DE50T	5265EN-4.80ET0L	DH50T	5265BH-4.80ET0L
DE50U	5265EN-4.80ETM2L	DH50U	5265BH-4.80ETM2L

^{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 AA59789/09	Vendor similar designator or type part number <u>1/</u> <u>2/</u> CAGE 5BG68
DE30T	5265EN-2.80ET0L
DE40T	5265EN-3.80ET0L
DE50T	5265EN-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

CIVIL AGENCY COORDINATING ACTIVITY:

GSA – FSS
 Preparing activity:
 DLA – CC
 Project 5998-2009-043

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 <http://assist.daps.dla.mil>.