

[INCH-POUND]
A-A-59789/15A
15 January 2013
Superseding
A-A-59789/15
10 May 2008

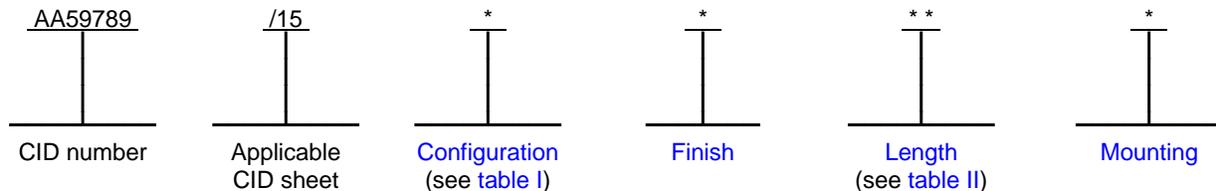
COMMERCIAL ITEM DESCRIPTION
SPECIFICATION SHEET

HOLDER, ELECTRICAL CARD, WEDGE RETAINERS, 5 PIECE, FOR COLD PLATE APPLICATIONS,
.375 X .375 INCH (9.27 x 9.53 mm) 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 5 piece 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 Part Identification Number (PIN) as shown in the following example (see [notes](#) herein).



Example: AA59789/15EH50V is the PIN for a hard black anodized, 4.8 inch (122 mm) long card holder. The card holder also features three tapped for use with 4 40 fasteners.

SALIENT CHARACTERISTICS.

Performance. Card holders shall hold the circuit card assembly it is attached to firmly in its installed position and prevent loosening or movement as a result of shock and vibration. The card holder shall also provide a thermal transfer path from the circuit card assembly to the cold plate or heat sink surfaces.

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 across flats dimension for hex drive socket shall be .140 inch (3.60 mm) for mounting options "R" and "V" and .118 inch (3.0 mm) for mounting option "Y".

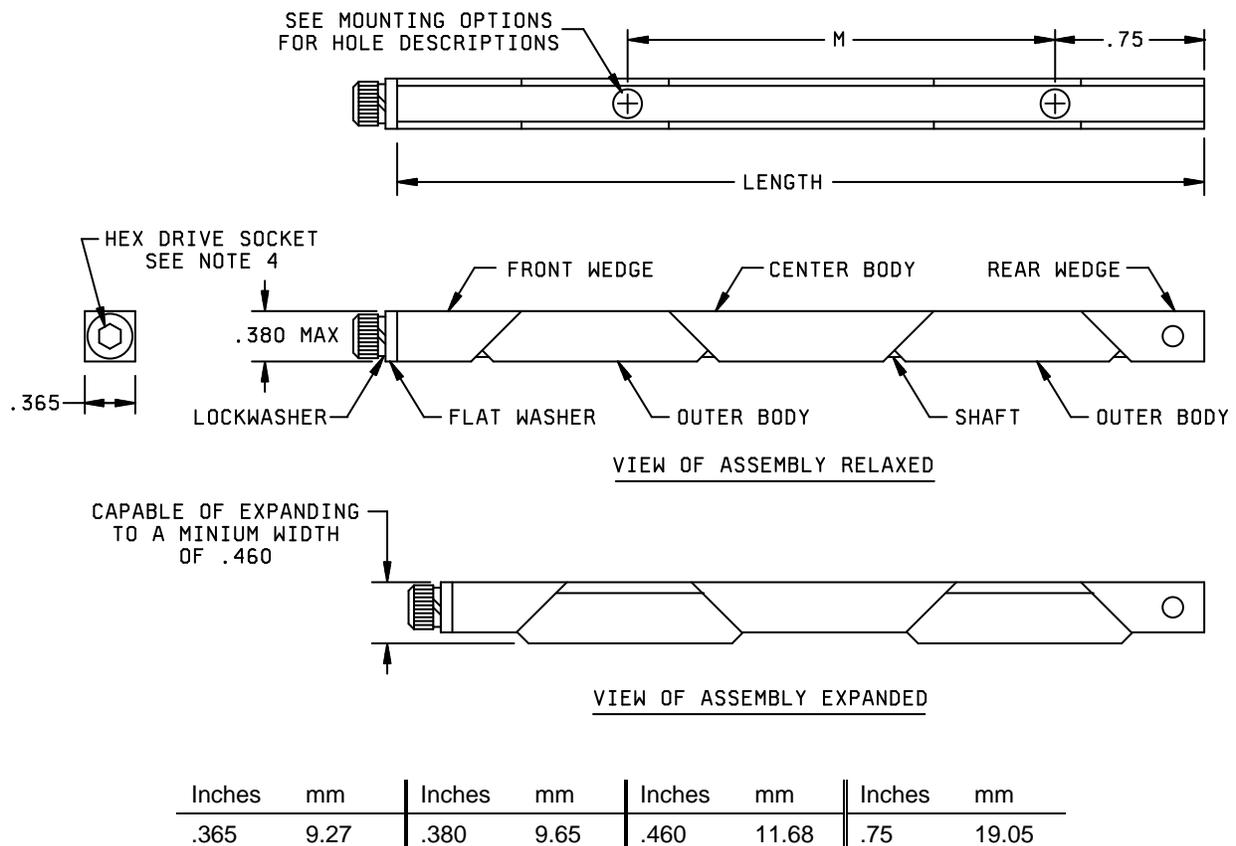
Cold plate slot width. The recommended cold plate slot width to accommodate the circuit card assembly with attached card holder is .425 inch (10.80 mm) plus the thickness of the printed board of the circuit card assembly (see [A-A-59789](#)).

Installation torque. The recommended nominal installation torque is as follows: 20 inch-pounds (2.3 N-m) for assemblies of configuration "C" and "E" and 23 inch-pounds (2.6 N-m) for assemblies of configurations "L" and "D".

Configuration. The configuration of card holders 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](#) or [3](#).

TABLE I. [Configuration](#).

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



NOTES:

1. Dimensions are in inches. Millimeters 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 mounting hole spacing is ± 0.005 inch (0.13 mm).
4. The across flats dimension for actuating screw hex drive socket shall be .140 inch (3.60 mm) or .118 (3.0 mm) for the corresponding mounting option (see [hex drive socket details](#)).

FIGURE 1. [Relaxed and expanded dimensions](#).

Finish. The wedge body 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](#). 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 mm)	Dimension "M" ±.005 (0.13 mm)	Dimension "M/2" ±.005 (0.13 mm)
28	2.8 (71 mm)	.65 (16.5 mm)	.325 (8.26 mm)
38	3.8 (97 mm)	1.65 (41.9 mm)	.825 (20.96 mm)
48	4.8 (122 mm)	2.65 (67.3 mm)	1.325 (33.66 mm)

1/ Dimensions are in inches. Millimeters, in parenthesis, are given for general 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: "R" (rivet mount holes with counterbore and countersink), "V" (tapped 4-40 holes), or "M" (tapped metric M3 x 0.5 holes). See [figure 1](#) and [table I](#) for mounting hole spacing requirements.

Rivet mount holes. The holes used for rivet mounting shall be .134 to .139 inch (3.40 to 3.53 mm) diameter through holes, countersunk 100 degrees by .150 inch (3.81 mm) deep.

Rivets. This card holder uses rivet style B as specified in [A-A-59789](#) when rivet mounting is used.

Configuration hardware options. Card holders can have the following hardware options: no added hardware, screw self-locking element, an additional mounting hole, or a combination of both screw self-locking element and third mounting. See [table I](#) for the correct PIN configuration identifier. Card holders requiring no added hardware options shall include configuration identifier "C" in the PIN (see [classification](#) and [notes](#) section herein).

Screw self-locking element (see [figure 2](#)). The use of a screw self-locking element on the screw will provide a prevailing-torque for increased resistance to loosening of the card holder assembly from shock and 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 [table I](#), [classification](#) and [notes](#) section herein).

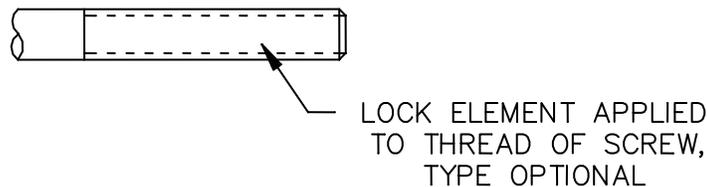


FIGURE 2. Screw self-locking element details.

Additional mounting holes (see figure 3). Card holders requiring an additional mounting hole shall include configuration identifier "E" in the PIN (see table I).

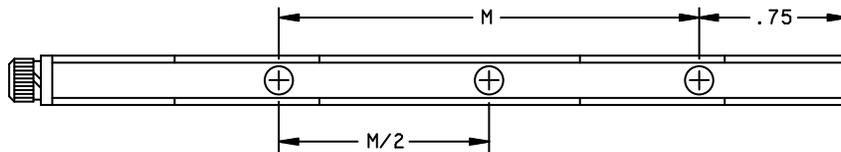


FIGURE 3. Additional mounting hole details.

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

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.dla.mil/quicksearch> or <https://assist.dla.mil> or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.)

Ordering data. Ordering data shall be 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 Electronic Packaging 7328 Trade Street San Diego, CA 92121-3410	Telephone: (858) 740-2400 Toll Free: (800) 854-7086 Facsimile: (858) 740-2430 E-mail: sales@calmark.com URL: www.calmark.com
5BG68	American Circuit Card Retainers, Inc. 2310 E. Orangethorpe Avenue Anaheim, CA 92806-1231	Telephone: (714) 738-6194 Facsimile: (714) 446-0119 E-mail: sales@accrmfg.com URL: http://www.accrmfg.com
3E7U8	Wakefield Solutions 200 Towerview Court Cary, NC 27513	Telephone: (919) 469-2004 Facsimile: (919) 469-2827 E-mail: info@wakefield.com URL: www.wakefield.com

Part number supersession data. These CID specification sheet PINs supersede 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 AA59789/15	Vendor similar designator or type part number <u>1/</u> <u>2/</u>		
	CAGE 61081	CAGE 5BG68	CAGE 3E7U8
CB50M	A280-4.80TM3	5280BA-4.80TM3	438C-480YMB
CB50R	A280-4.80H	5280BA-4.80H	438C-480RSB
CB50V	A280-4.80T4	5280BA-4.80T4	438C-480VSB
LB50M	A280-4.80TM3L	5280BA-4.80TM3L	438C-480YMB-P
LB50R	A280-4.80HL	5280BA-4.80HL	438C-480RSB-P
LB50V	A280-4.80T4L	5280BA-4.80T4L	438C-480VSB-P
EB50M	A280-4.80ETM3	5280BA-4.80ETM3	438C-480YMB-C
EB50R	A280-4.80EH	5280BA-4.80EH	438C-480RSB-C
EB50V	A280-4.80ET4	5280BA-4.80ET4	438C-480VSB-C
DB50M	A280-4.80ETM3L	5280BA-4.80ETM3L	438C-480YMB-CP
DB50R	A280-4.80EHL	5280BA-4.80EHL	438C-480RSB-CP
DB50V	A280-4.80ET4L	5280BA-4.80ET4L	438C-480VSB-CP

See footnotes at end of table.

TABLE III. Commercial part number supersession data – Continued.

PIN designator AA59789/15	Vendor similar designator or type part number <u>1/</u> <u>2/</u>		
	CAGE 61081	CAGE 5BG68	CAGE 3E7U8
CE50M	EN280-4.80TM3	5280EN-4.80TM3	438C-480YME
CE50R	EN280-4.80H	5280EN-4.80H	438C-480RSE
CE50V	EN280-4.80T4	5280EN-4.80T4	438C-480VSE
LE50M	EN280-4.80TM3L	5280EN-4.80TM3L	438C-480YME-P
LE50R	EN280-4.80HL	5280EN-4.80HL	438C-480RSE-P
LE50V	EN280-4.80T4L	5280EN-4.80T4L	438C-480VSE-P
EE50M	EN280-4.80ETM3	5280EN-4.80ETM3	438C-480YME-C
EE50R	EN280-4.80EH	5280EN-4.80EH	438C-480RSE-C
EE50V	EN280-4.80ET4	5280EN-4.80ET4	438C-480VSE-C
DE50M	EN280-4.80ETM3L	5280EN-4.80ETM3L	438C-480YME-CP
DE50R	EN280-4.80EHL	5280EN-4.80EHL	438C-480RSE-CP
DE50V	EN280-4.80ET4L	5280EN-4.80ET4L	438C-480VSE-CP
CH50M	HA280-4.80TM3	5280BH-4.80TM3	438C-480YMH
CH50R	HA280-4.80H	5280BH-4.80H	438C-480RSH
CH50V	HA280-4.80T4	5280BH-4.80T4	438C-480VSH
LH50M	HA280-4.80TM3L	5280BH-4.80TM3L	438C-480YMH-P
LH50R	HA280-4.80HL	5280BH-4.80HL	438C-480RSH-P
LH50V	HA280-4.80T4L	5280BH-4.80T4L	438C-480VSH-P
EH50M	HA280-4.80ETM3	5280BH-4.80ETM3	438C-480YMH-C
EH50R	HA280-4.80EH	5280BH-4.80EH	438C-480RSH-C
EH50V	HA280-4.80ET4	5280BH-4.80ET4	438C-480VSH-C
DH50M	HA280-4.80ETM3L	5280BH-4.80ETM3L	438C-480YMH-CP
DH50R	HA280-4.80EHL	5280BH-4.80EHL	438C-480RSH-CP
DH50V	HA280-4.80ET4L	5280BH-4.80ET4L	438C-480VSH-CP
CR50M	R280-4.80TM3	5280CCBH-4.80TM3	438C-480YMT
CR50R	R280-4.80H	5280CC-4.80H	438C-480RST
CR50V	R280-4.80T4	5280CC-4.80T4	438C-480VST
LR50M	R280-4.80TM3L	5280CC-4.80TM3L	438C-480YMT-P
LR50R	R280-4.80HL	5280CC-4.80HL	438C-480RST-P
LR50V	R280-4.80T4L	5280CC-4.80T4L	438C-480VST-P

See footnotes at end of table.

TABLE III. Commercial part number supersession data – Continued.

PIN designator AA59789/15	Vendor similar designator or type part number <u>1/</u> <u>2/</u>		
	CAGE 61081	CAGE 5BG68	CAGE 3E7U8
ER50M	R280-4.80ETM3	5280CC-4.80ETM3	438C-480YMT-C
ER50R	R280-4.80EH	5280CC-4.80EH	438C-480RST-C
ER50V	R280-4.80ET4	5280CC-4.80ET4	438C-480VST-C
DR50M	R280-4.80ETM3L	5280CC-4.80ETM3L	438C-480YMT-CP
DR50R	R280-4.80EHL	5280CC-4.80EHL	438C-480RST-CP
DR50V	R280-4.80ET4L	5280CC-4.80ET4L	438C-480VST-CP

1/ The CID PINs listed are only for length designator "50".

2/ 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 AA59789/15	Vendor similar designator or type part number <u>1/</u> <u>2/</u>		
	CAGE 61081	CAGE 5BG68	CAGE 3E7U8
EH30V	HA280-2.80ET4	5280BH-2.80ET4	438C-280VSH-C
EH40V	HA280-3.80ET4	5280BH-3.80ET4	438C-380VSH-C
EH50V	HA280-4.80ET4	5280BH-4.80ET4	438C-480VSH-C

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.

Changes from previous issue. The margins of this specification are marked with vertical lines to indicate where changes from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

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 5998-2012-005

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.dla.mil>.