

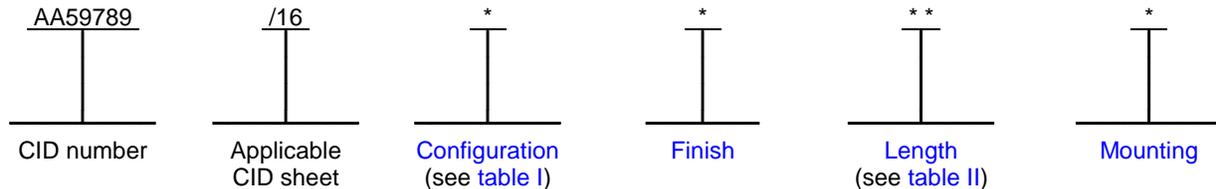
COMMERCIAL ITEM DESCRIPTION
SPECIFICATION SHEET

HOLDER, ELECTRICAL CARD, WEDGE RETAINERS, 5 PIECE, FOR COLD PLATE APPLICATIONS,
.365 X .375 INCH (9.27 x 9.53 mm) BODY SIZE, WITH CAPTIVE REAR WEDGE AND
VISUAL LOCK INDICATION, 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](#)).



Example: AA59789/16LE40R is the PIN for a nickel finished, 3.8 inch (97 mm) long card holder with a visual lock
indication feature. The card holder also features two counterbored holes for use with rivets 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 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".

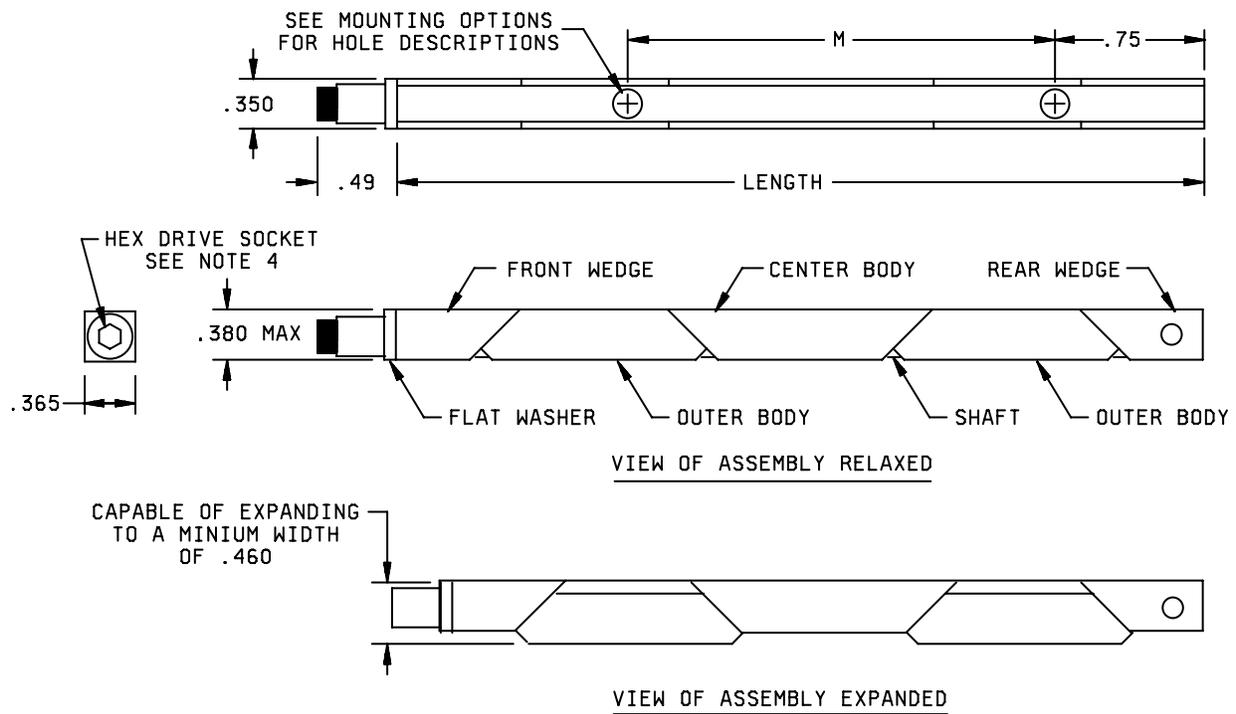
Cold plate slot width. The recommended cold plate slot width to accommodate the circuit card assembly with
attached card holder is .425 inch (10.80 mm) plus the thickness of the printed board of the circuit card assembly
(see [A-A-59789](#)).

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 figures 1 and 2, and may include those on figures 3 or 4.

TABLE I. Configurations.

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



Inches	mm	Inches	mm	Inches	mm
.350	8.89	.380	9.65	.49	12.45
.365	9.27	.460	11.68	.75	19.05

NOTES:

1. Dimensions are in inches. Millimeters are given for 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 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).

FIGURE 1. Relaxed and expanded dimensions.

Visual lock indicator (see figure 2). 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.

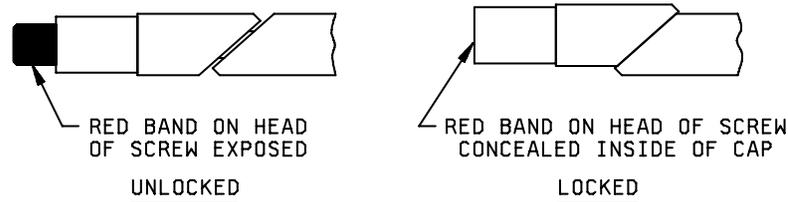


FIGURE 2. Visual lock indicator.

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), or “H” (hard black anodize).

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 card holder 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 information only.

Mounting. The mounting designators shall be as specified in [A-A-59789](#). 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 M2.5 x 0.45 holes). See [figure 1](#) for mounting hole spacing requirements.

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

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

Configuration hardware options. Card holders can have the following hardware options: screw self-locking element, an additional mounting hole, or a combination of both. See [table I](#) for the correct PIN configuration identifier.

Screw self-locking element (see figure 3). 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 3. Screw self-locking element details.

Additional mounting hole (see figure 4). Card holders requiring an additional mounting hole shall include configuration identifier "E" in the PIN (see table I).

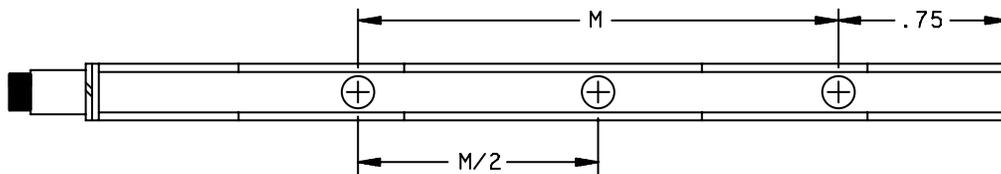


FIGURE 4. Additional mounting hole details.

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>
52094	Calmark Corporation 4915 Walnut Grove Avenue San Gabriel, CA 91776-2099	Telephone: (626) 287-0451 Facsimile: (626) 287-7350 E-mail: sales@calmark.com URL: www.calmark.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 AA59789/16	Vendor similar designator or type part number ^{1/} CAGE 52094	PIN designator AA59789/16	Vendor similar designator or type part number ^{1/} CAGE 52094
CB50M	VA280-4.80TM3	LB50M	VA280-4.80TM3L
CB50R	VA280-4.80H	LB50R	VA280-4.80HL
CB50V	VA280-4.80T4	LB50V	VA280-4.80T4L
EB50M	VA280-4.80ETM3	DB50M	VA280-4.80ETM3L
EB50R	VA280-4.80EH	DB50R	VA280-4.80EHL
EB50V	VA280-4.80ET4	DB50V	VA280-4.80ET4L
CE50M	VEN280-4.80TM3	LE50M	VEN280-4.80TM3L
CE50R	VEN280-4.80H	LE50R	VEN280-4.80HL
CE50V	VEN280-4.80T4	LE50V	VEN280-4.80T4L
EE50M	VEN280-4.80ETM3	DE50M	VEN280-4.80ETM3L
EE50R	VEN280-4.80EH	DE50R	VEN280-4.80EHL
EE50V	VEN280-4.80ET4	DE50V	VEN280-4.80ET4L
CH50M	VHA280-4.80TM3	LH50M	VHA280-4.80TM3L
CH50R	VHA280-4.80H	LH50R	VHA280-4.80HL
CH50V	VHA280-4.80T4	LH50V	VHA280-4.80T4L

See footnote at end of table.

TABLE III. Commercial part number supersession data – Continued.

PIN designator AA59789/16	Vendor similar designator or type part number <u>1/</u> CAGE 52094	PIN designator AA59789/16	Vendor similar designator or type part number <u>1/</u> CAGE 52094
EH50M	VHA280-4.80ETM3	DH50M	VHA280-4.80ETM3L
EH50R	VHA280-4.80EH	DH50R	VHA280-4.80EHL
EH50V	VHA280-4.80ET4	DH50V	VHA280-4.80ET4L

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 AA59789/16	Vendor similar designator or type part number <u>1/</u> <u>2/</u> CAGE 52094
LE30R	VEN280-2.80H0L
LE40R	VEN280-3.80H0L
LE50R	VEN280-4.80HL

- 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 – 11
 DLA – CC

Review Activity:
 Air Force – 99

CIVIL AGENCY COORDINATING ACTIVITY:

GSA – FSS
 Preparing Activity:
 DLA – CC
 Project 5998-2007-031

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>.