

[INCH-POUND]
A-A-59789/18A
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SUPERSEDING
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8 August 2008

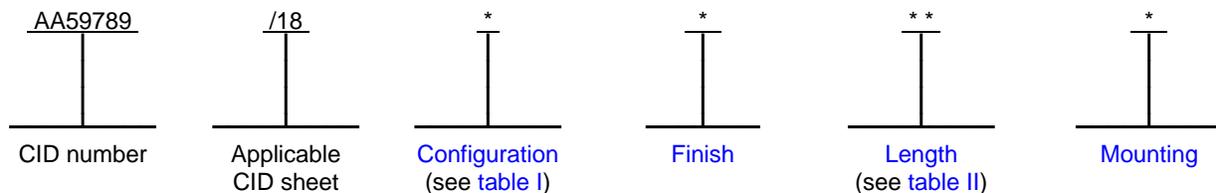
COMMERCIAL ITEM DESCRIPTION
SPECIFICATION SHEET

HOLDER, ELECTRICAL CARD, WEDGE RETAINERS, 5 PIECE, FOR COLD PLATE APPLICATIONS,
.250 X .290 INCH (6.35 x 7.37 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 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: AA59789/18DE40T is the PIN for an electroless nickel finished, 3.8 inch (96.5 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.

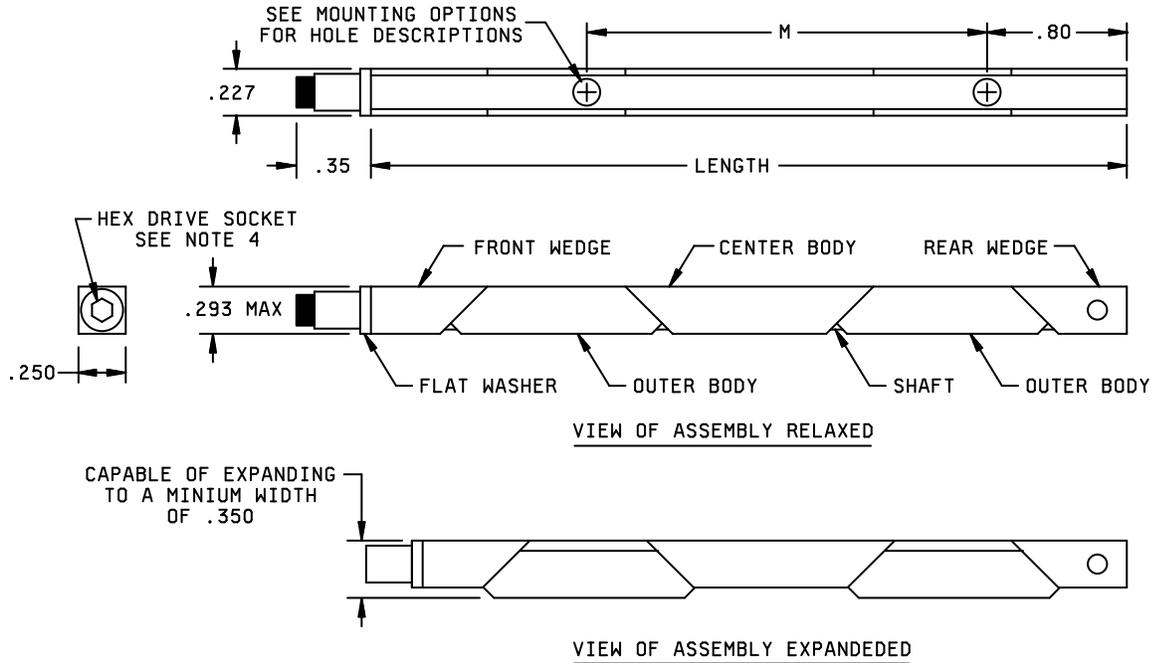
Performance. Card holders shall hold the circuit card assembly it is attached to firmly in its installed position and prevent loosening or movement as a result of shock and vibration. The card holder shall also provide a thermal transfer path from the circuit card assembly to the cold plate or heat sink 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](#). Card holders shall 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 recommended cold plate slot width to accommodate the circuit card assembly with attached card holder is .325 inch (8.25 mm) plus the thickness of the printed board of the circuit card assembly (see [A-A-59789](#)).



Inches	mm	Inches	mm	Inches	mm	Inches	Mm
.227	5.77	.250	6.35	.350	8.89	.80	20.32
.23	5.84	.293	7.44	.35	8.9		

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.

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 1](#). The details of a particular configuration consist of those on [figures 1](#) and [2](#), and may include those on [figures 3](#) and [4](#).

TABLE I. Configuration.

Configuration	Applicable figures	Hardware options
C	1 and 2	No added options
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

Visual lock indicator (see figure 2). Card holders shall have a visual indicator to show when the card holder is in its relaxed (unlocked) state. When the card holder is in the unlocked (relaxed) state, 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 (assembly expanded) so that the assembly is in the locked position, this red band shall be concealed.

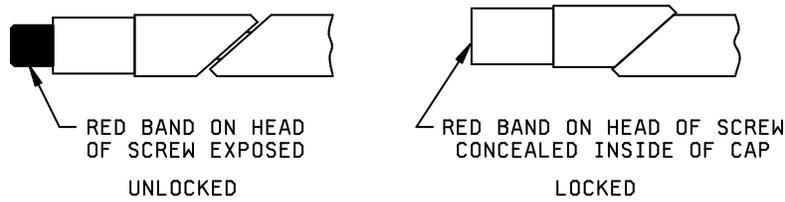


FIGURE 2. Visual lock indicator.

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), "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 mm)	Dimension "M" ±.01 (0.3 mm)	Dimension "M/2" ±.02 (0.5 mm)
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 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: "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 and table II 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.

Configuration hardware options. Card holders can have the following options: no added hardware, screw self-locking element (see [figure 2](#)), an additional mounting hole (see [figure 3](#)), or a combination of both screw self-locking element and third mounting. See [table I](#) for the correct PIN configuration identifier for the hardware option needed. 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 3). 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).

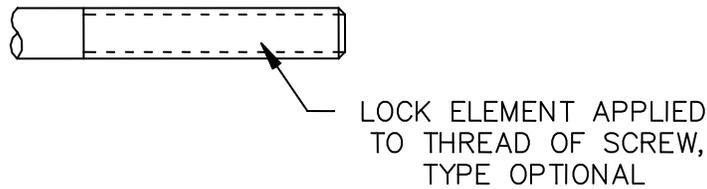


FIGURE 3. Screw self-locking element details.

Additional mounting hole (see figure 4). Card holders requiring an additional mounting hole shall include configuration identifier "E" in the PIN (see [table I](#), [classification](#) and [notes](#) section herein).

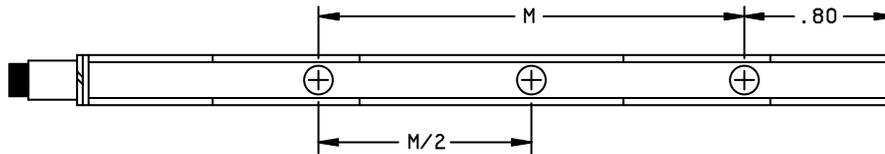


FIGURE 4. Additional mounting hole details.

Screw self-locking element and additional mounting hole. Card holders requiring a screw self-locking element and an additional mounting hole 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 Technical Products 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	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 AA59789/18	Vendor similar designator or type part number 1/ 2/	
	CAGE 61081	CAGE 5BG68
CB50M	VA263-4.80TM2.5	5263VBA-4.80TM2.5
CB50R	VA263-4.80H	5263VBA-4.80H
CB50S	VA263-4.80T2	5263VBA-4.80T2
CB50T	VA263-4.80T0	5263VBA-4.80T0
CB50U	VA263-4.80TM2	5263VBA-4.80TM2
LB50M	VA263-4.80TM2.5L	5263VBA-4.80TM2.5L
LB50R	VA263-4.80HL	5263VBA-4.80HL
LB50S	VA263-4.80T2L	5263VBA-4.80T2L
LB50T	VA263-4.80T0L	5263VBA-4.80T0L
LB50U	VA263-4.80TM2L	5263VBA-4.80TM2L
EB50M	VA263-4.80ETM2.5	5263VBA-4.80ETM2.5
EB50R	VA263-4.80EH	5263VBA-4.80EH
EB50S	VA263-4.80ET2	5263VBA-4.80ET2
EB50T	VA263-4.80ET0	5263VBA-4.80ET0
EB50U	VA263-4.80ETM2	5263VBA-4.80ETM2
DB50M	VA263-4.80ETM2.5L	5263VBA-4.80ETM2.5L
DB50R	VA263-4.80EHL	5263VBA-4.80EHL
DB50S	VA263-4.80ET2L	5263VBA-4.80ET2L
DB50T	VA263-4.80ET0L	5263VBA-4.80ET0L
DB50U	VA263-4.80ETM2L	5263VBA-4.80ETM2L
CE50M	VEN263-4.80TM2.5	5263VEN-4.80TM2.5
CE50R	VEN263-4.80H	5263VEN-4.80H
CE50S	VEN263-4.80T2	5263VEN-4.80T2
CE50T	VEN263-4.80T0	5263VEN-4.80T0
CE50U	VEN263-4.80TM2	5263VEN-4.80TM2
LE50M	VEN263-4.80TM2.5L	5263VEN-4.80TM2.5L
LE50R	VEN263-4.80HL	5263VEN-4.80HL
LE50S	VEN263-4.80T2L	5263VEN-4.80T2L
LE50T	VEN263-4.80T0L	5263VEN-4.80T0L
LE50U	VEN263-4.80TM2L	5263VEN-4.80TM2L

See footnote at end of table.

TABLE III. Commercial part number supersession data – Continued.

PIN designator AA59789/18	Vendor similar designator or type part number 1/ 2/	
	CAGE 61081	CAGE 5BG68
EE50M	VEN263-4.80ETM2.5	5263VEN-4.80ETM2.5
EE50R	VEN263-4.80EH	5263VEN-4.80EH
EE50S	VEN263-4.80ET2	5263VEN-4.80ET2
EE50T	VEN263-4.80ET0	5263VEN-4.80ET0
EE50U	VEN263-4.80ETM2	5263VEN-4.80ETM2
DE50M	VEN263-4.80ETM2.5L	5263VEN-4.80ETM2.5L
DE50R	VEN263-4.80EHL	5263VEN-4.80EHL
DE50S	VEN263-4.80ET2L	5263VEN-4.80ET2L
DE50T	VEN263-4.80ET0L	5263VEN-4.80ET0L
DE50U	VEN263-4.80ETM2L	5263VEN-4.80ETM2L
CH50M	VHA263-4.80TM2.5	5263VBH-4.80TM2.5
CH50R	VHA263-4.80H	5263VBH-4.80H
CH50S	VHA263-4.80T2	5263VBH-4.80T2
CH50T	VHA263-4.80T0	5263VBH-4.80T0
CH50U	VHA263-4.80TM2	5263VBH-4.80TM2
LH50M	VHA263-4.80TM2.5L	5263VBH-4.80T2.5L
LH50R	VHA263-4.80HL	5263VBH-4.80HL
LH50S	VHA263-4.80T2L	5263VBH-4.80T2L
LH50T	VHA263-4.80T0L	5263VBH-4.80T0L
LH50U	VHA263-4.80TM2L	5263VBH-4.80TM2L
EH50M	VHA263-4.80ETM2.5	5263VBH-4.80ETM2.5
EH50R	VHA263-4.80EH	5263VBH-4.80EH
EH50S	VHA263-4.80ET2	5263BH-4.80ET2
EH50T	VHA263-4.80ET0	5263VBH-4.80ET0
EH50U	VHA263-4.80ETM2	5263VBH-4.80ETM2
DH50M	VHA263-4.80ETM2.5L	5263VBH-4.80ET2.5L
DH50R	VHA263-4.80EHL	5263VBH-4.80EHL
DH50S	VHA263-4.80ET2L	5263VBH-4.80ET2L
DH50T	VHA263-4.80ET0L	5263VBH-4.80ET0L
DH50U	VHA263-4.80ETM2L	5263VBH-4.80ETM2L

See footnote at end of table.

TABLE III. Commercial part number supersession data – Continued.

PIN designator AA59789/18	Vendor similar designator or type part number <u>1/</u> <u>2/</u>	
	CAGE 61081	CAGE 5BG68
CR50M	VR263-4.80TM2.5	5263VCC-4.80TM2.5
CR50R	VR263-4.80H	5263VCC-4.80H
CR50S	VR263-4.80T2	5263VCC-4.80T2
CR50T	VR263-4.80T0	5263VCC-4.80T0
CR50U	VR263-4.80TM2	5263VCC-4.80TM2
LR50M	VR263-4.80TM2.5L	5263VCC-4.80T2.5L
LR50R	VR263-4.80HL	5263VCC-4.80HL
LR50S	VR263-4.80T2L	5263VCC-4.80T2L
LR50T	VR263-4.80T0L	5263VCC-4.80T0L
LR50U	VR263-4.80TM2L	5263VCC-4.80TM2L
ER50M	R263-4.80ETM2.5	5263VCC-4.80ETM2.5
ER50R	R263-4.80EH	5263VCC-4.80EH
ER50S	R263-4.80ET2	5263VCC-4.80ET2
ER50T	R263-4.80ET0	5263VCC-4.80ET0
ER50U	R263-4.80ETM2	5263VCC-4.80ETM2
DR50M	R263-4.80ETM2.5L	5263VCC-4.80ET2.5L
DR50R	R263-4.80EHL	5263VCC-4.80EHL
DR50S	R263-4.80ET2L	5263VCC-4.80ET2L
DR50T	R263-4.80ET0L	5263VCC-4.80ET0L
DR50U	R263-4.80ETM2L	5263VCC-4.80ETM2L

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 AA59789/18	Vendor similar designator or type part number <u>1/</u> <u>2/</u>	
	CAGE 61081	CAGE 5BG68
DE30T	VEN263-2.80ET0L	5263VEN-2.80ET0L
DE40T	VEN263-3.80ET0L	5263VEN-3.80ET0L
DE50T	VEN263-4.80ET0L	5263VEN-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.

Changes from previous issue. The margins of this CID are marked with vertical line 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 contents 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 – FSS
 Preparing Activity:
 DLA – CC
 Project 5998-2012-008

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