

[INCH-POUND]  
A-A-59789/17A  
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SUPERSEDING  
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8 August 2008

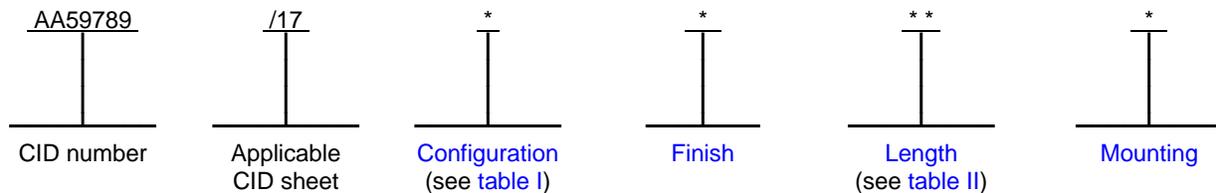
## COMMERCIAL ITEM DESCRIPTION SPECIFICATION SHEET

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, 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: AA59789/17CH30S is the PIN for a hard black anodized finished, 2.8 inch (71.1 mm) long card holder. The card holder also features two tapped mounting holes for use with 2-56 UNF 2B 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 dimension for hex drive socket shall be .094 inch (2.38 mm) across flats for mounting options "M", "R", "S", "T", and "U".

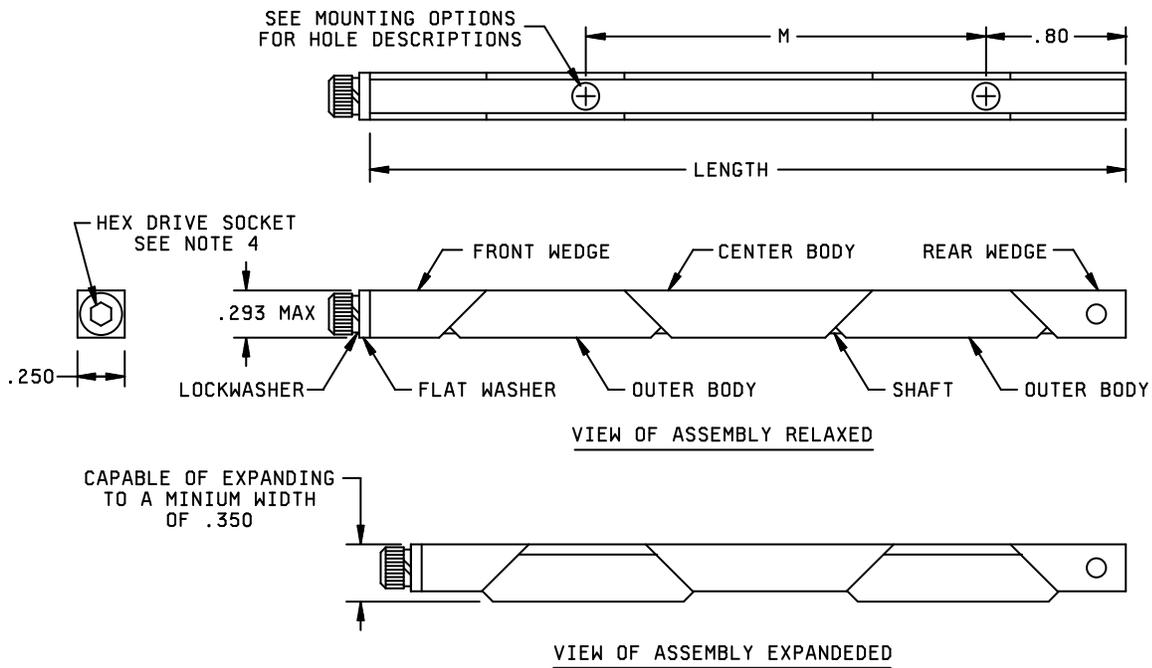
Cold plate slot width. The recommend cold plate slot width to accommodate the circuit card assembly with attached card holder is .325 inch (8.25 mm) plus the thickness of the printed board of the circuit card assembly (see [A-A-59789](#)).

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](#).

TABLE I. Configuration.

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
.250	6.35	.293	7.44	.350	8.89	.80	20.32

NOTES:

1. Dimensions are in inches. Millimeter equivalents are given for general information only.
2. Unless otherwise specified, tolerances are  $\pm 0.02$  inch (0.51 mm) for two place decimals and  $\pm 0.010$  inch (0.25 mm) for three place decimals.
3. Tolerance for the hole spacing is  $\pm 0.005$  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.

**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)	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 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 through holes, 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 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).

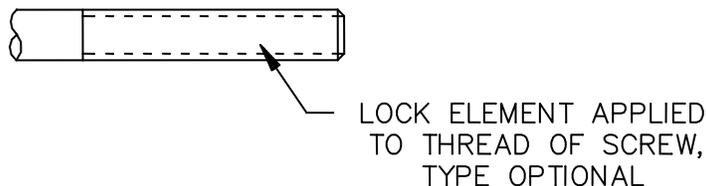


FIGURE 2. [Screw self-locking element details.](#)

Additional mounting hole (see figure 3). Card holders requiring an additional mounting hole shall include configuration identifier "E" in the PIN (see [table I](#), [classification](#) and [notes](#) section herein).

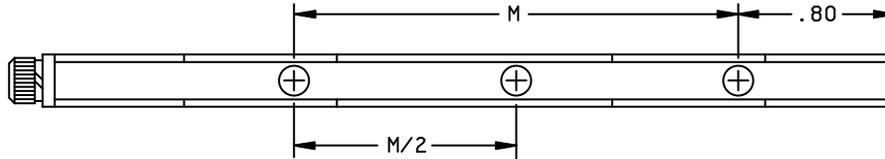


FIGURE 3. Additional mounting hole details.

Screw self-locking element and additional mounting hole. Card holders requiring a screw self-locking element and an additional mounting hole 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: <a href="mailto:sales@calmark.com">sales@calmark.com</a> URL: <a href="http://www.calmark.com">www.calmark.com</a>
5BG68	Card Locks Unlimited, Inc. 2310 E. Orangethorpe Avenue Anaheim, CA 92806-1231	Telephone: (714) 738-6194 Facsimile: (714) 446-0119 E-mail: <a href="mailto:sales@clumfg.com">sales@clumfg.com</a> URL: <a href="http://www.clumfg.com">www.clumfg.com</a>

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 AA59789/17	Vendor similar designator or type part number <a href="#">1/</a> <a href="#">2/</a>	
	CAGE 61081	CAGE 5BG68
CB50M	A263-4.80TM2.5	5263BA-4.80TM2.5
CB50R	A263-4.80H	5263BA-4.80H
CB50S	A263-4.80T2	5263BA-4.80T2
CB50T	A263-4.80T0	5263BA-4.80T0
CB50U	A263-4.80TM2	5263BA-4.80TM2
LB50M	A263-4.80TM2.5L	5263BA-4.80TM2.5L
LB50R	A263-4.80HL	5263BA-4.80HL
LB50S	A263-4.80T2L	5263BA-4.80T2L
LB50T	A263-4.80T0L	5263BA-4.80T0L
LB50U	A263-4.80TM2L	5263BA-4.80TM2L
EB50M	A263-4.80ETM2.5	5263BA-4.80ETM2.5
EB50R	A263-4.80EH	5263BA-4.80EH
EB50S	A263-4.80ET2	5263BA-4.80ET2
EB50T	A263-4.80ET0	5263BA-4.80ET0
EB50U	A263-4.80ETM2	5263BA-4.80ETM2
DB50M	A263-4.80ETM2.5L	5263BA-4.80ETM2.5L
DB50R	A263-4.80EHL	5263BA-4.80EHL
DB50S	A263-4.80ET2L	5263BA-4.80ET2L
DB50T	A263-4.80ET0L	5263BA-4.80ET0L
DB50U	A263-4.80ETM2L	5263BA-4.80ETM2L
CE50M	EN263-4.80TM2.5	5263EN-4.80TM2.5
CE50R	EN263-4.80H	5263EN-4.80H
CE50S	EN263-4.80T2	5263EN-4.80T2
CE50T	EN263-4.80T0	5263EN-4.80T0
CE50U	EN263-4.80TM2	5263EN-4.80TM2

See footnote at end of table.

TABLE III. Commercial part number supersession data – Continued.

PIN designator AA59789/17	Vendor similar designator or type part number <a href="#">1/</a> <a href="#">2/</a>	
	CAGE 61081	CAGE 5BG68
LE50M	EN263-4.80TM2.5L	5263EN-4.80TM2.5L
LE50R	EN263-4.80HL	5263EN-4.80HL
LE50S	EN263-4.80T2L	5263EN-4.80T2L
LE50T	EN263-4.80T0L	5263EN-4.80T0L
LE50U	EN263-4.80TM2L	5263EN-4.80TM2L
EE50M	EN263-4.80ETM2.5	5263EN-4.80ETM2.5
EE50R	EN263-4.80EH	5263EN-4.80EH
EE50S	EN263-4.80ET2	5263EN-4.80ET2
EE50T	EN263-4.80ET0	5263EN-4.80ET0
EE50U	EN263-4.80ETM2	5263EN-4.80ETM2
DE50M	EN263-4.80ETM2.5L	5263EN-4.80ETM2.5L
DE50R	EN263-4.80EHL	5263EN-4.80EHL
DE50S	EN263-4.80ET2L	5263EN-4.80ET2L
DE50T	EN263-4.80ET0L	5263EN-4.80ET0L
DE50U	EN263-4.80ETM2L	5263EN-4.80ETM2L
CH50M	HA263-4.80TM2.5	5263BH-4.80TM2.5
CH50R	HA263-4.80H	5263BH-4.80H
CH50S	HA263-4.80T2	5263BH-4.80T2
CH50T	HA263-4.80T0	5263BH-4.80T0
CH50U	HA263-4.80TM2	5263BH-4.80TM2
LH50M	HA263-4.80TM2.5L	5263BH-4.80T2.5L
LH50R	HA263-4.80HL	5263BH-4.80HL
LH50S	HA263-4.80T2L	5263BH-4.80T2L
LH50T	HA263-4.80T0L	5263BH-4.80T0L
LH50U	HA263-4.80TM2L	5263BH-4.80TM2L
EH50M	HA263-4.80ETM2.5	5263BH-4.80ETM2.5
EH50R	HA263-4.80EH	5263BH-4.80EH
EH50S	HA263-4.80ET2	5263BH-4.80ET2
EH50T	HA263-4.80ET0	5263BH-4.80ET0
EH50U	HA263-4.80ETM2	5263BH-4.80ETM2

See footnote at end of table.

TABLE III. Commercial part number supersession data – Continued.

PIN designator AA59789/17	Vendor similar designator or type part number <u>1/</u> <u>2/</u>	
	CAGE 61081	CAGE 5BG68
DH50M	HA263-4.80ETM2.5L	5263BH-4.80ET2.5L
DH50R	HA263-4.80EHL	5263BH-4.80EHL
DH50S	HA263-4.80ET2L	5263BH-4.80ET2L
DH50T	HA263-4.80ET0L	5263BH-4.80ET0L
DH50U	HA263-4.80ETM2L	5263BH-4.80ETM2L
CR50M	R263-4.80TM2.5	5263CC-4.80TM2.5
CR50R	R263-4.80H	5263CC-4.80H
CR50S	R263-4.80T2	5263CC-4.80T2
CR50T	R263-4.80T0	5263CC-4.80T0
CR50U	R263-4.80TM2	5263CC-4.80TM2
LR50M	R263-4.80TM2.5L	5263CC-4.80T2.5L
LR50R	R263-4.80HL	5263CC-4.80HL
LR50S	R263-4.80T2L	5263CC-4.80T2L
LR50T	R263-4.80T0L	5263CC-4.80T0L
LR50U	R263-4.80TM2L	5263CC-4.80TM2L
ER50M	R263-4.80ETM2.5	5263CC-4.80ETM2.5
ER50R	R263-4.80EH	5263CC-4.80EH
ER50S	R263-4.80ET2	5263CC-4.80ET2
ER50T	R263-4.80ET0	5263CC-4.80ET0
ER50U	R263-4.80ETM2	5263CC-4.80ETM2
DR50M	R263-4.80ETM2.5L	5263CC-4.80ET2.5L
DR50R	R263-4.80EHL	5263CC-4.80EHL
DR50S	R263-4.80ET2L	5263CC-4.80ET2L
DR50T	R263-4.80ET0L	5263CC-4.80ET0L
DR50U	R263-4.80ETM2L	5263CC-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 AA59789/17	Vendor similar designator or type part number <u>1/</u> <u>2/</u>	
	CAGE 61081	CAGE 5BG68
CH30S	HA263-2.80T2	5263BH-2.80T2
CH40S	HA263-3.80T2	5263BH-3.80T2
CH50S	HA263-4.80T2	5263BH-4.80T2

- 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 – FAS  
 Preparing Activity:  
 DLA – CC  
 Project 5998-2012-007

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