

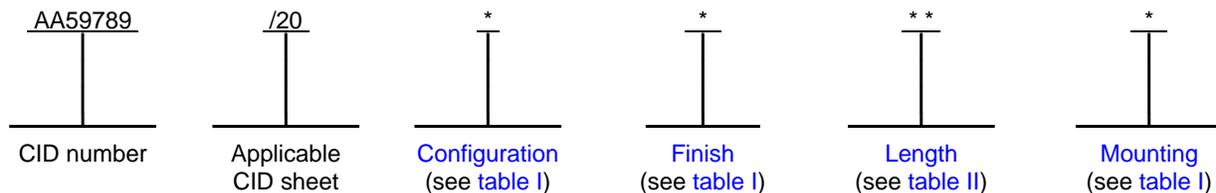
COMMERCIAL ITEM DESCRIPTION  
SPECIFICATION SHEET

HOLDER, ELECTRICAL CARD, WEDGE RETAINERS, 5 PIECE, FOR COLD PLATE APPLICATIONS,  
.250 X .270 INCH (6.35 x 6.86 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: AA59789/20LE40T is the PIN for an electroless nickel finished, 3.8 inch (96.5 mm) long card holder. The  
card holder also features two 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".

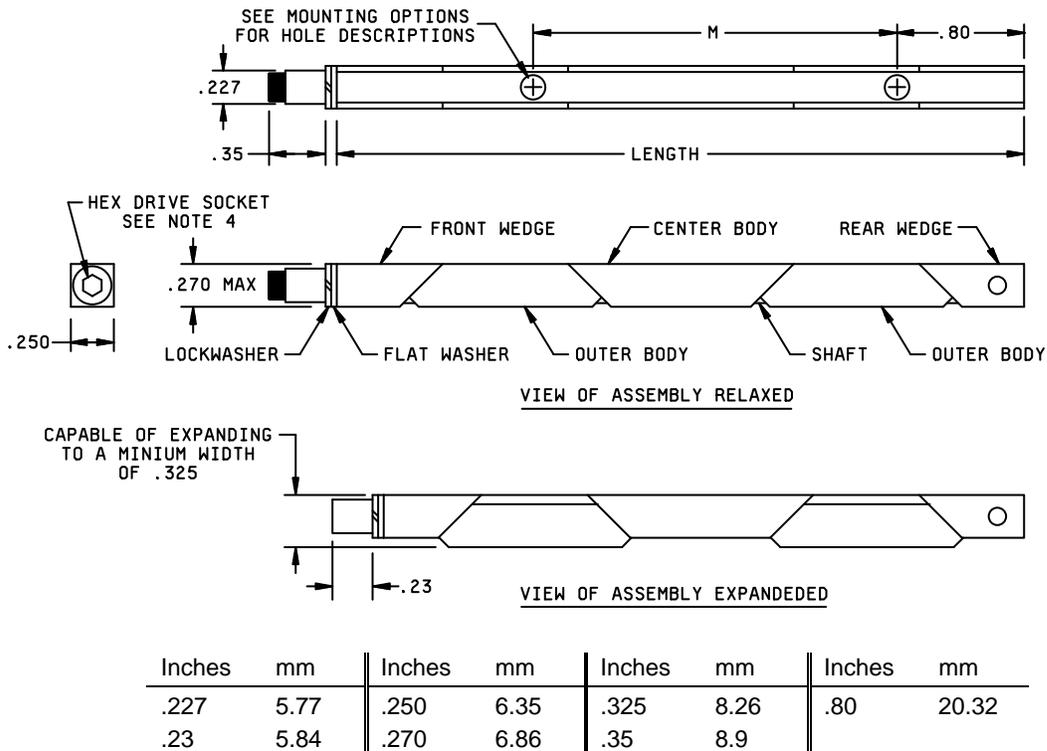
Cold plate slot width. The recommended cold plate slot width to accommodate the circuit card assembly with  
attached card holder is .300 inch (7.62 mm) plus the thickness of the printed board of the circuit card assembly (see  
[A-A-59789](#)).

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

TABLE I. Configurations.

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



NOTES:

1. Dimensions are in inches. Millimeter equivalents are given for information only.
2. Unless otherwise specified, tolerances are for  $\pm 0.02$  inch (0.51 mm) for two place decimals and  $\pm 0.010$  (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 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" (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.

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.

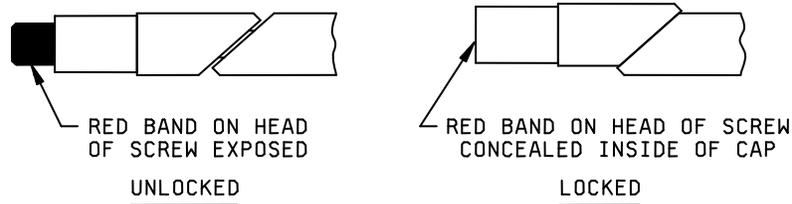


FIGURE 2. Visual lock indicator.

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 (0.13mm)
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.

Configuration hardware options. Card holders can have the following options. 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).

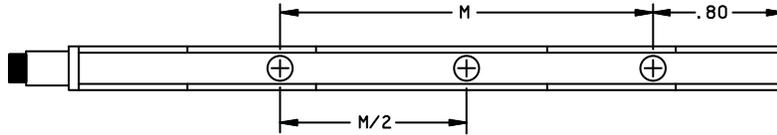


FIGURE 4. Additional mounting hole details.

Screw self-locking element and additional mounting hole. Card holders requiring a screw self-locking element and an additional mounting hole options 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: <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. These CID specification sheet PINs supersedes the following manufacturer's part numbers as shown in [table III](#) and on DESC Drawing 89024 ([table IV](#)) as shown. The CID PINs listed in [table III](#) are only for length designator "50". See [table V](#) 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 AA59789/20	Vendor similar designator or type part number <u>1</u> / CAGE 5BG68	PIN designator AA59789/20	Vendor similar designator or type part number <u>1</u> / CAGE 5BG68
CB50M	5260VBA-4.80TM2.5	EB50M	5260VBA-4.80ETM2.5
CB50R	5260VBA-4.80H	EB50R	5260VBA-4.80EH
CB50S	5260VBA-4.80T2	EB50S	5260VBA-4.80ET2
CB50T	5260VBA-4.80T0	EB50T	5260VBA-4.80ET0
CB50U	5260VBA-4.80TM2	EB50U	5260VBA-4.80ETM2
LB50M	5260VBA-4.80TM2.5L	DB50M	5260VBA-4.80ETM2.5L
LB50R	5260VBA-4.80HL	DB50R	5260VBA-4.80EHL
LB50S	5260VBA-4.80T2L	DB50S	5260VBA-4.80ET2L
LB50T	5260VBA-4.80T0L	DB50T	5260VBA-4.80ET0L
LB50U	5260VBA-4.80TM2L	DB50U	5260VBA-4.80ETM2L
CC50M	5260VCG-4.80TM2.5	EC50M	5260VCG-4.80ETM2.5
CC50R	5260VCG-4.80H	EC50R	5260VCG-4.80EH
CC50S	5260VCG-4.80T2	EC50S	5260VCG-4.80ET2
CC50T	5260VCG-4.80T0	EC50T	5260VCG-4.80ET0
CC50U	5260VCG-4.80TM2	EC50U	5260VCG-4.80ETM2
LC50M	5260VCG-4.80TM2.5L	DC50M	5260VCG-4.80ETM2.5L
LC50R	5260VCG-4.80HL	DC50R	5260VCG-4.80EHL
LC50S	5260VCG-4.80T2L	DC50S	5260VCG-4.80ET2L
LC50T	5260VCG-4.80T0L	DC50T	5260VCG-4.80ET0L
LC50U	5260VCG-4.80TM2L	DC50U	5260VCG-4.80ETM2L
CE50M	5260VEN-4.80TM2.5	EE50M	5260VEN-4.80ETM2.5
CE50R	5260VEN-4.80H	EE50R	5260VEN-4.80EH
CE50S	5260VEN-4.80T2	EE50S	5260VEN-4.80ET2
CE50T	5260VEN-4.80T0	EE50T	5260VEN-4.80ET0
CE50U	5260VEN-4.80TM2	EE50U	5260VEN-4.80ETM2

See footnote at end of table.

TABLE III. Commercial part number supersession data – Continued.

PIN designator AA59789/20	Vendor similar designator or type part number <sup>1/</sup> CAGE 5BG68	PIN designator AA59789/20	Vendor similar designator or type part number <sup>1/</sup> CAGE 5BG68
LE50M	5260VEN-4.80TM2.5L	DE50M	5260VEN-4.80ETM2.5L
LE50R	5260VEN-4.80HL	DE50R	5260VEN-4.80EHL
LE50S	5260VEN-4.80T2L	DE50S	5260VEN-4.80ET2L
LE50T	5260VEN-4.80T0L	DE50T	5260VEN-4.80ET0L
LE50U	5260VEN-4.80TM2L	DE50U	5260VEN-4.80ETM2L
CH50M	5260VBH-4.80TM2.5	EH50M	5260VBH-4.80ETM2.5
CH50R	5260VBH-4.80H	EH50R	5260VBH-4.80EH
CH50S	5260VBH-4.80T2	EH50S	5260VBH-4.80ET2
CH50T	5260VBH-4.80T0	EH50T	5260VBH-4.80ET0
CH50U	5260VBH-4.80TM2	EH50U	5260VBH-4.80ETM2
LH50M	5260VBH-4.80TM2.5L	DH50M	5260VBH-4.80ETM2.5L
LH50R	5260VBH-4.80HL	DH50R	5260VBH-4.80EHL
LH50S	5260VBH-4.80T2L	DH50S	5260VBH-4.80ET2L
LH50T	5260VBH-4.80T0L	DH50T	5260VBH-4.80ET0L
LH50U	5260VBH-4.80TM2L	DH50U	5260VBH-4.80ETM2L

<sup>1/</sup> 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. DESC Drawing PIN supersession information.

Superseded (old) PIN in accordance with DESC Drawing 89024	Superseding (new) CID PIN	Superseded (old) PIN in accordance with DESC Drawing 89024	Superseding (new) CID PIN
89024-11BH	AA59789/20CB30R	89024-11CH	AA59789/20CC30R
89024-14BH	AA59789/20CB40R	89024-14CH	AA59789/20CC40R
89024-17BH	AA59789/20CB50R	89024-17CH	AA59789/20CC50R
89024-11BS	AA59789/20CB30T	89024-11CS	AA59789/20CC30T
89024-14BS	AA59789/20CB40T	89024-14CS	AA59789/20CC40T
89024-17BS	AA59789/20CB50T	89024-17CS	AA59789/20CC50T
89024-11BT	AA59789/20CB30S	89024-11CT	AA59789/20CC30S
89024-14BT	AA59789/20CB40S	89024-14CT	AA59789/20CC40S
89024-17BT	AA59789/20CB50S	89024-17CT	AA59789/20CC50S

TABLE V. Example of PIN with available length designators.

PIN designator AA59789/20	Vendor similar designator or type part number <u>1/</u> <u>2/</u> CAGE 5BG68
LE30T	5260VEN-2.80T0L
LE40T	5260VEN-3.80T0L
LE50T	5260VEN-4.80T0L

- 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

Review activity:  
 Air Force – 99

CIVIL AGENCY COORDINATING ACTIVITY:

GSA – FSS  
 Preparing activity:  
 DLA – CC  
 Project 5998-2008-020

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>.