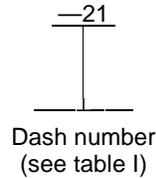
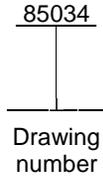


1. SCOPE

1.1 Scope. This drawing describes the requirements for a family of metal card holders for use with printed circuit boards and circuit card assemblies in moderate shock and vibration environments.

1.2 Part or Identifying Number (PIN). The complete PIN shall be as follows:



2. APPLICABLE DOCUMENTS

2.1 Government documents.

2.1.1 Specifications, standards, and handbooks. The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DoDISS) and supplement thereto, cited in the solicitation (see 6.2).

SPECIFICATIONS

- MIL-S-5002 - Surface Treatments and Inorganic Coatings for Metal Surfaces of Weapon Systems.
- MIL-C-81021 - Copper-Beryllium Alloy (Copper Alloy Numbers C17500 and C17510), Strip.

STANDARDS

DEPARTMENT OF DEFENSE

- MIL-STD-1285 - Marking of Electrical and Electronic Parts.

(Unless otherwise indicated, copies of federal and military specifications, standards, and handbooks are available from the Document Automation and Production Service (DAPS), Building 4D (DAPS-DODSSP), 700 Robbins Avenue, Philadelphia, PA 19111-5094.)

2.2 Non-Government publications. The following document forms a part of this document to the extent specified herein. Unless otherwise specified, the issues of the documents which are DoD adopted are those listed in the issue of the DoDISS cited in the solicitation. Unless otherwise specified, the issues of documents not listed in the DoDISS are the issues of the documents cited in the solicitation (see 6.2).

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

- ASTM A666 - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.

(Application for copies should be addressed to the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.)

(Non-Government Standards and other publications are normally available from the organizations which prepare or which distribute the documents. These documents also may be available in or through libraries or other informational services.)

2.3 Order of precedence. In the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

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3. REQUIREMENTS

3.1 Interface and physical dimensions. See table I and figure 1.

3.2 Materials. For PINs 01 through 12, 25 through 36, and 49 through 60, the material shall be .016 inch (0.4064 mm) thick stainless steel, type 301, condition ½ H, in accordance with ASTM A666 or equivalent. For PINs 13 through 24, 37 through 48, and 61 through 74, the material shall be .016 inch thick beryllium copper (copper alloy number C17500), temper "AT" in accordance with MIL-C-81021.

3.3 Finish. All corrosion resistant steel devices shall be passivate in accordance with MIL-S-5002. Beryllium copper devices shall have no finish applied.

3.4 Certificate of compliance. A certificate of compliance shall be required from manufacturers requesting to be a suggested source of supply.

3.5 Marking. Marking of the card guide is not required; however, each unit package shall be marked in accordance with MIL-STD-1285 and include the PIN as specified herein (see 1.2), the manufacturer's name or Commercial and Government Entity (CAGE) code, and date lot codes.

3.6 Recycled, recovered, or environmentally preferable materials. Recycled, recovered, or environmentally preferable materials should be used to the maximum extent possible provided that the material meets or exceeds the operational and maintenance requirements, and promotes economically advantageous life cycle costs.

3.7 Workmanship. Retainers shall be processed in such a manner as to be uniform in quality and shall be free from surface and finish flaws that could affect life or serviceability. Burrs, chipping, and cracking are unacceptable.

4. VERIFICATION

4.1 Sampling and inspection. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract, the contractor may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in this drawing where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements.

4.2 Conformance inspections.

4.2.1 Inspection of product for delivery. Inspection of product for delivery shall consist of visual and mechanical inspections of interface and physical dimensions (see 3.1), materials (see 3.2), and workmanship (see 3.7). Criteria for defects are listed in 4.2.5.

4.2.2 Optional statement of compliance. The acquiring activity, at its discretion, may accept a statement of compliance in lieu of the manufacturer performing the inspection of product for delivery (see 6.2.b).

4.2.3 Sampling plan. A sample of parts shall be randomly selected in accordance with table II, normal sampling. If one or more defects are found, the lot shall be rejected. Criteria for defects are listed in 4.2.5.

4.2.4 Rejected lots. If an inspection lot is rejected after normal sampling inspection, the manufacturer may rework it to correct the defects, or screen out the defective parts and resubmit for inspection. Resubmitted lots shall be inspected by selecting a random sample of parts in accordance with table II, tightened sampling. If one or more defects are found in this sample, the lot shall be rejected and shall not be supplied to this specification. Resubmitted lots which are acceptable shall be clearly identified as reinspected lots.

4.2.5 Defective characteristics and properties. Dimensional characteristics are considered defective when out of tolerance. Physical and functional properties are considered defective when outside the specified minimum, maximum, or range as applicable. Workmanship characteristics are considered defective when they would be detrimental to the intended use, performance requirements, or environmental survival of the part.

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TABLE I. Dash numbers and dimensions.

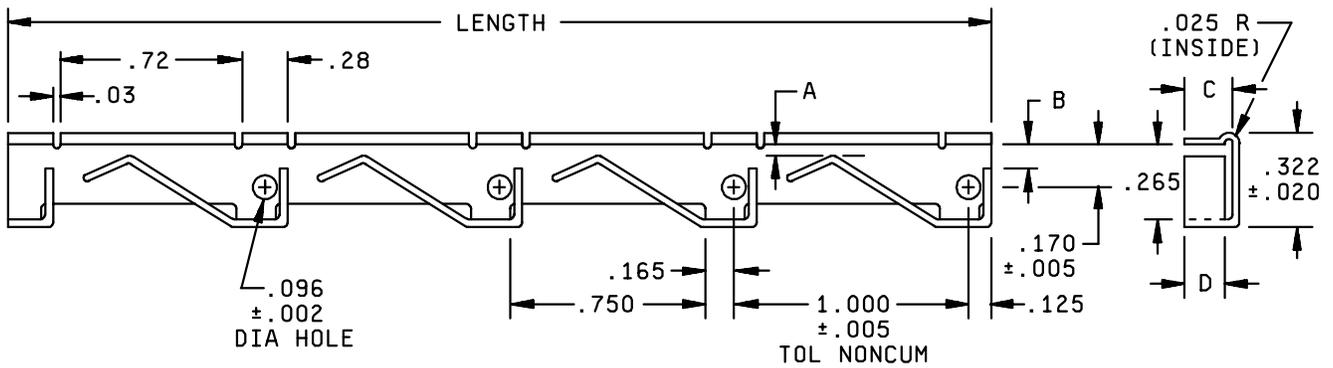
PIN	Dimension "L" ± 0.02	Dimension "A" $+0.00$ $- .03$	Dimension "B" $+0.015$ $- .000$	Dimension "C"	Dimension "D"	Card thickness	Configuration
—01	2.25	.045	.075	.125	.100	.0625	A
—02	2.25	.075	.105	.125	.100	.0937	
—03	3.25	.045	.075	.125	.100	.0625	
—04	3.25	.075	.105	.125	.100	.0937	
—05	4.25	.045	.075	.125	.100	.0625	
—06	4.25	.075	.105	.125	.100	.0937	
—07	5.25	.045	.075	.125	.100	.0625	
—08	5.25	.075	.105	.125	.100	.0937	
—09	6.25	.045	.075	.125	.100	.0625	
—10	6.25	.075	.105	.125	.100	.0937	
—11	8.25	.045	.075	.125	.100	.0625	
—12	8.25	.075	.105	.125	.100	.0937	
—13	2.25	.045	.075	.165	.140	.0625	
—14	2.25	.075	.105	.165	.140	.0937	
—15	3.25	.045	.075	.165	.140	.0625	
—16	3.25	.075	.105	.165	.140	.0937	
—17	4.25	.045	.075	.165	.140	.0625	
—18	4.25	.075	.105	.165	.140	.0937	
—19	5.25	.045	.075	.165	.140	.0625	
—20	5.25	.075	.105	.165	.140	.0937	
—21	6.25	.045	.075	.165	.140	.0625	
—22	6.25	.075	.105	.165	.140	.0937	
—23	8.25	.045	.075	.165	.140	.0625	
—24	8.25	.075	.105	.165	.140	.0937	
—25	2.25	.045	.075	.125	.100	.0625	B
—26	2.25	.075	.105	.125	.100	.0937	
—27	3.25	.045	.075	.125	.100	.0625	
—28	3.25	.075	.105	.125	.100	.0937	
—29	4.25	.045	.075	.125	.100	.0625	
—30	4.25	.075	.105	.125	.100	.0937	
—31	5.25	.045	.075	.125	.100	.0625	
—32	5.25	.075	.105	.125	.100	.0937	
—33	6.25	.045	.075	.125	.100	.0625	
—34	6.25	.075	.105	.125	.100	.0937	
—35	8.25	.045	.075	.125	.100	.0625	
—36	8.25	.075	.105	.125	.100	.0937	

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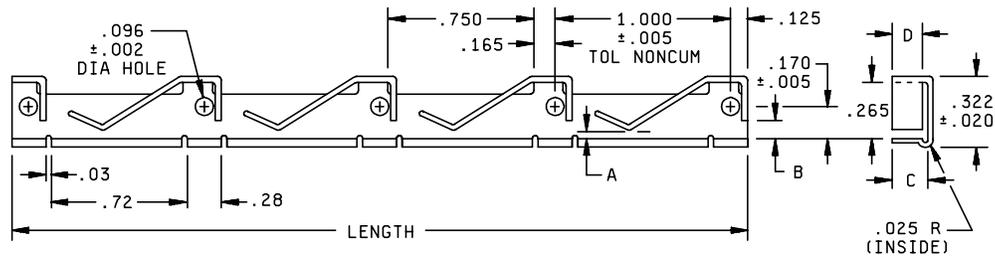
TABLE I. Dash numbers and dimensions – Continued.

PIN	Dimension "L" ± 0.02	Dimension "A" +.00 – .03	Dimension "B" +.015 – .000	Dimension "C"	Dimension "D"	Card thickness	Configuration
—37	2.25	.045	.075	.165	.140	.0625	B
—38	2.25	.075	.105	.165	.140	.0937	
—39	3.25	.045	.075	.165	.140	.0625	
—40	3.25	.075	.105	.165	.140	.0937	
—41	4.25	.045	.075	.165	.140	.0625	
—42	4.25	.075	.105	.165	.140	.0937	
—43	5.25	.045	.075	.165	.140	.0625	
—44	5.25	.075	.105	.165	.140	.0937	
—45	6.25	.045	.075	.165	.140	.0625	
—46	6.25	.075	.105	.165	.140	.0937	
—47	8.25	.045	.075	.165	.140	.0625	
—48	8.25	.075	.105	.165	.140	.0937	
—49	2.25	.155	.095	.125	.100	.0625	C
—50	2.25	.125	.065	.125	.100	.0937	
—51	3.25	.155	.095	.125	.100	.0625	
—52	3.25	.125	.065	.125	.100	.0937	
—53	5.25	.155	.095	.125	.100	.0625	
—54	5.25	.125	.065	.125	.100	.0937	
—55	2.25	.155	.095	.125	.100	.0625	D
—56	2.25	.125	.065	.125	.100	.0937	
—57	3.25	.155	.095	.125	.100	.0625	
—58	3.25	.125	.065	.125	.100	.0937	
—59	5.25	.155	.095	.125	.100	.0625	
—60	5.25	.125	.065	.125	.100	.0937	
—61	2.25	.155	.095	.165	.140	.0625	C
—62	2.25	.125	.065	.165	.140	.0937	
—63	3.25	.155	.095	.165	.140	.0625	
—64	3.25	.125	.065	.165	.140	.0937	
—65	5.25	.155	.095	.165	.140	.0625	
—66	5.25	.125	.065	.165	.140	.0937	
—67	2.25	.155	.095	.165	.140	.0625	D
—68	2.25	.125	.065	.165	.140	.0937	
—69	3.25	.155	.095	.165	.140	.0625	
—70	3.25	.125	.065	.165	.140	.0937	
—71	5.25	.155	.095	.165	.140	.0625	
—72	5.25	.125	.065	.165	.140	.0937	
—73	6.25	.155	.095	.125	.100	.0625	C
—74	6.25	.155	.095	.125	.100	.0625	D

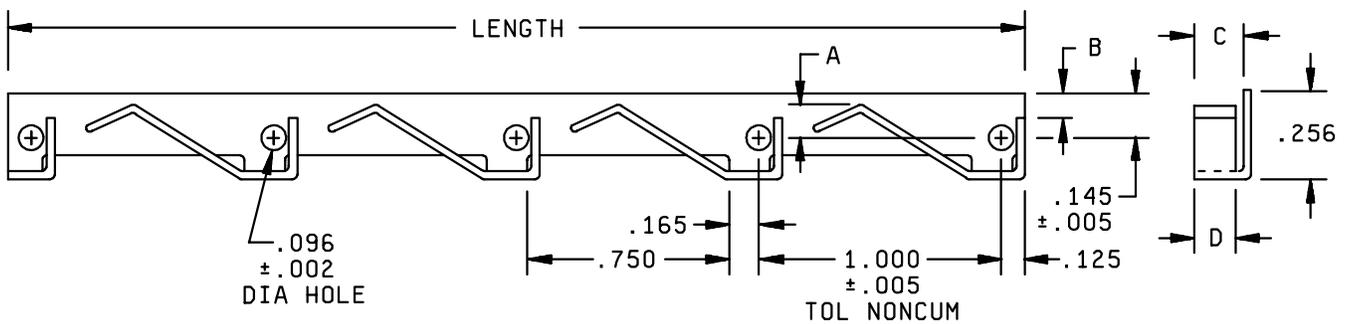
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Configuration A.



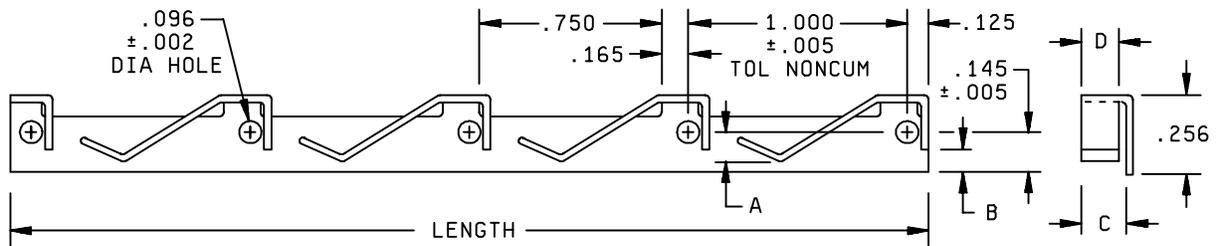
Configuration B.



Configuration C

FIGURE 1. Design and dimensions.

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Inches	mm	Inches	mm
.002	0.05	.165	4.19
.005	0.13	.170	4.32
.015	0.51	.256	6.50
.020	0.64	.265	6.73
.025	0.51	.28	7.1
.03	0.8	.322	8.18
.096	2.44	.72	18.3
.125	3.18	.750	19.05
.145	3.68	1.000	25.40

NOTES:

1. Dimensions are in inches. Metric equivalents are given for general information only.
2. Unless otherwise specified, tolerances are for ± 0.02 inch (0.5 mm) for two place decimals and ± 0.010 (0.25 mm) for three place decimals.

FIGURE 2. Card mounting dimensions.

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TABLE II. Sampling plan.

Lot size	Normal	Tightened
2 to 25	3	5
26 to 50	5	6
51 to 90	6	7
91 to 150	7	11
151 to 280	10	13
281 to 500	11	16
501 to 1,200	15	19
1,201 to 3,200	18	23
3,201 to 10,000	22	29
10,001 to 35,001	29	35
35,001 and over	29	40

5. PACKAGING

5.1 Packaging. For acquisition purposes, the packaging requirements shall be as specified in the contract or order (see 6.2). When actual packaging of materiel is to be performed by DoD personnel, these personnel need to contact the responsible packaging activity to ascertain requisite packaging requirements. Packaging requirements are maintained by the Inventory Control Point's packaging activity within the Military Department or Defense Agency, or within the Military Department's System Command. Packaging data retrieval is available from the managing Military Department's or Defense Agency's automated packaging files, CD-ROM products, or by contacting the responsible packaging activity.

6. NOTES

(This section contains information of a general or explanatory nature which may be helpful, but is not mandatory.)

6.1 Intended use. Card holders conforming to this drawing are intended for use when military specifications do not exist and qualified military devices that will perform the required function are not available for OEM application.

6.2 Ordering data. The contract or purchase order should specify the following:

- a. Complete PIN (see 1.2).
- b. Requirements for delivery of one copy of the conformance inspection data or certificate of compliance that parts have passed conformance inspection with each shipment of parts by the manufacturer.
- c. Requirements for packaging and packing.

6.3 Users of record. Coordination of this document for future revisions are coordinated only with the suggested sources of supply and the users of record of this document. Requests to be added as a recorded user of this drawing should be in writing to: Defense Supply Center, Columbus, ATTN: DSCC-VAC, Post Office Box 3990, Columbus, OH 43216-5000 or by electronic mail at "5998.Document@dsc.dla.mil" or by facsimile (614) 692-6939 or DSN 850-6939.

6.4 Replaceability. Card holders covered herein replace similar commercial devices covered by contractor-prepared specifications or drawings.

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6.5 Suggested sources of supply. Suggested sources of supply are listed herein. Additional sources will be added as they become available. For assistance in the use of this drawing, contact Defense Supply Center, Columbus, ATTN: DSCC-VAC, Post Office Box 3990, Columbus, OH 43216-5000 or by electronic mail at "5998.Document@dsc.dla.mil" or by facsimile (614) 692-6939 or DSN 850-6939.

DSCC drawing PIN 85034	Vendor similar designation or type number (1)	DSCC drawing PIN 85034	Vendor similar designation or type number (1)	Vendor CAGE	Vendor name and address
—01	125—06—2.25	—13	165—06—2.25	52094	Calmark Corporation 4915 Walnut Grove Ave San Gabriel, CA 91776-2099 Tel: (626) 287-0451 Fax: (626) 287-7350 E-mail: sales@calmark.com URL: www.calmark.com
—02	125—09—2.25	—14	165—09—2.25		
—03	125—06—3.25	—15	165—06—3.25		
—04	125—09—3.25	—16	165—09—3.25		
—05	125—06—4.25	—17	165—06—4.25		
—06	125—09—4.25	—18	165—09—4.25		
—07	125—06—5.25	—19	165—06—5.25		
—08	125—09—5.25	—20	165—09—5.25		
—09	125—06—6.25	—21	165—06—6.25		
—10	125—09—6.25	—22	165—09—6.25		
—11	125—06—8.25	—23	165—06—8.25		
—12	125—09—8.25	—24	165—09—8.25		
—25	126—06—2.25	—37	166—06—2.25		
—26	126—09—2.25	—38	166—09—2.25		
—27	126—06—3.25	—39	166—06—3.25		
—28	126—09—3.25	—40	166—09—3.25		
—29	126—06—4.25	—41	166—06—4.25		
—30	126—09—4.25	—42	166—09—4.25		
—31	126—06—5.25	—43	166—06—5.25		
—32	126—09—5.25	—44	166—09—5.25		
—33	126—06—6.25	—45	166—06—6.25		
—34	126—09—6.25	—46	166—09—6.25		
—35	126—06—8.25	—47	166—06—8.25		
—36	126—09—8.25	—48	166—09—8.25		
—49	NW125—06—2.25	—55	NW126—06—2.25		
—50	NW125—09—2.25	—56	NW126—09—2.25		
—51	NW125—06—3.25	—57	NW126—06—3.25		
—52	NW125—09—3.25	—58	NW126—09—3.25		
—53	NW125—06—5.25	—59	NW126—06—5.25		
—54	NW125—09—5.25	—60	NW126—09—8.25		

See note on next page.

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DSCC drawing PIN 85034	Vendor similar designation or type number (1)	DSCC drawing PIN 85034	Vendor similar designation or type number (1)	Vendor CAGE	Vendor name and address
—61 —62 —63 —64 —65 —66	NW165—06—2.25 NW165—09—2.25 NW165—06—3.25 NW165—09—3.25 NW165—06—5.25 NW165—09—5.25	—67 —68 —69 —70 —71 —72 —73 —74	NW166—06—2.25 NW166—09—2.25 NW166—06—3.25 NW166—09—3.25 NW166—06—5.25 NW166—09—5.25 NW166—06—6.25 NW166—09—6.25	52094	Calmark Corporation 4915 Walnut Grove Ave San Gabriel, CA 91776—2099 Tel: (626) 287—0451 Fax: (626) 287—7350 E-mail: sales@calmark.com URL: www.calmark.com

(1) CAUTION: Do not use this number for item acquisition. Items acquired to this number may not satisfy the performance requirements of this drawing.

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