

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	Pages 1-6, Dimensioning requirements changed to allow second source to meet drawing requirements and thereby obtain two sources of supply for drawing.	14 JUN 1985	Ivan Jones
B	Added marking requirements. Editorial changes throughout.	29 SEP 1987	Randy Larson
C	Changed marking requirements and changed dimensional tolerance on snap retainer. Editorial changes.	19 SEP 1991	Randy Larson
D	Editorial changes throughout.	12 JUL 2000	Monica L. Poelking

PREVIOUS CAGE CODE 14933 SUPERSEDED BY 037Z3.

THE ORIGINAL FIRST PAGE OF THIS DRAWING HAS BEEN REPLACED.

Prepared in accordance with MIL-STD-100

Selected item drawing

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	PAGES		1	2	3	4	5	6												

PMIC N/A	PREPARED BY Christopher Rauch	DEFENSE SUPPLY CENTER, COLUMBUS COLUMBUS, OH	
Original date of drawing 8 August 1984	CHECKED BY Randy Larson	TITLE HOLDER, ELECTRICAL CARD, CARD GUIDE, DEEP CHANNEL, PLASTIC	
	APPROVED BY Ivan Jones		
	SIZE A	CODE IDENT. NO. 14933	DWG NO. 84101
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1. SCOPE

1.1 Scope. This drawing describes the requirements for a family of deep channel card guides intended for use with circuit card assemblies and printed circuit boards.

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).

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 Defense Automated Printing Service, Building 4D (DPM-DODSSP), 700 Robbins Avenue, Philadelphia, PA 19111-5094.)

2.2 Non-Government publications. The following document(s) form 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 D4066 Nylon Injection and Extrusion Materials (PA).

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

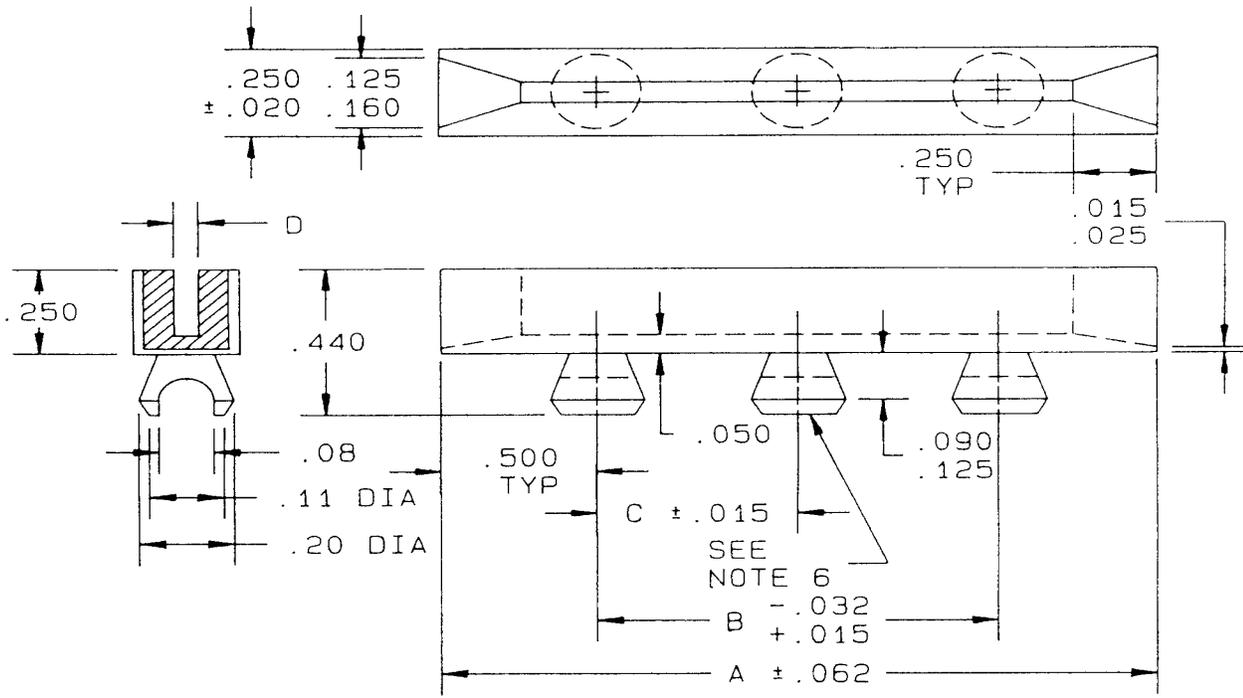
(Non-Government Standards and other publications are normally available from the organizations which prepare or which distribute the documents. These documents also may be available in or through libraries or other informational services.)

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. The design, construction, and physical dimensions shall be as specified on figure 1 and in table I.



Inches	mm								
.010	.254	.025	.635	.062	1.58	.11	2.79	.250	6.35
.015	.381	.032	.813	.080	2.03	.125	3.18	.440	11.18
.020	.508	.050	1.27	.090	2.29	.160	4.06	.500	12.7

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is +/- .010 inch (.254 mm).
4. The recommended thickness of the material to which the card guides are mounted is .047 to .090 inch (1.19 to 2.29 mm). The recommended hole diameter for the card guide feet is a 3/16 drill [.187 + .003/-0.001 inch (4.75 + 0.076/-0.025 mm)].
5. Slotting or elongating of second and third mounting holes is recommended to allow for length variations in molding and to facilitate assembly.
6. PIN's 84101-01, -02, -03, -22, and -23 have no center pylon, therefore, there is no "C" dimension for these parts.

FIGURE 1. Dimensions of deep channel card guides.

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3.2 Material. Material shall be nylon in accordance with ASTM D4066, D4066PA211R13A999F24.

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

3.4 Marking. Marking of the (part name) 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.

3.5 Workmanship. Card guides shall be free of flash, pits, voids, and excessive mold marks. Visible parting line is acceptable.

TABLE I. Dimension of deep channel card guides.

Part or Identifying Number	Dimension A ± .062 (1.57)	Dimension B + .000, - .032 (0.81)	Dimension C ^{1/} ± .015 (0.381)	Dimension D ± .005 (0.127)
84101—01	2.50 (63.5)	1.50 (38.1)	N/A ^{1/}	.080 (2.03)
84101—02	4.50 (114.3)	3.50 (88.9)	N/A ^{1/}	.080 (2.03)
84101—03	6.00 (152.4)	5.00 (127.0)	N/A ^{1/}	.080 (2.03)
84101—04	8.00 (203.2)	7.00 (177.8)	3.50 (88.9)	.080 (2.03)
84101—22	4.50 (114.3)	3.50 (88.9)	N/A ^{1/}	.132 (3.35)
84101—23	6.00 (152.4)	5.00 (127.0)	N/A ^{1/}	.132 (3.35)
84101—24	8.00 (203.2)	7.00 (177.8)	3.50 (88.9)	.132 (3.35)

^{1/}. PIN's 84101—01, —02, —03, —22 and —23 have no center pylon, therefore "C" dimension is not applicable.

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 3.5). 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.c).

4.2.3 Sampling plan. A sample of parts shall be randomly selected in accordance with table 3, 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 III, 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.

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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.

TABLE 3. 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 guides 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.

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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_Documents@dsccl.dla.mil" or by facsimile (614) 692-6939 or DSN 850-6939.

6.4 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 "5998_Documents@dsccl.dla.mil" or by facsimile (614) 692-6939 or DSN 850-6939.

DSCC drawing PIN	Vendor similar Designation or type Number <u>1/</u>	Vendor CAGE	Vendor name and address
84101—01 84101—02 84101—03 84101—04 84101—22 84101—24	94—2—5 94—2—9 94—2—12 94—2—16 94—4—9 94—4—16	18915	APW / Electronic Solutions 14100 Danielson Street Poway, CA 92064-6898 Phone: (858) 679-4550 Facsimile: (858) 679-4555 E-mail: sales@apw-elsol.com URL: www.apw-elsol.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.

DSCC drawing PIN	Vendor similar Designation or type Number <u>1/</u>	Vendor CAGE	Vendor name and address
84101—01 84101—02 84101—03 84101—04 84101—22 84101—23 84101—24	DC—250 DC—450 DC—600 DC—800 DC—450—130 DC—600—130 DC—800—130	32599	Bivar, Incorporated 4 Thomas Street Irvine, CA 92718-2512 Phone: (949) 951-8808 Facsimile: (949) 951-3974 e-mail: info@bivar.com URL: www.bivar.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.

DSCC drawing PIN	Vendor similar Designation or type number <u>1/</u>	Vendor CAGE	Vendor name and address
84101—01 84101—02 84101—03 84101—04 84101—22 84101—23 84101—24	9425 9445 9460 9480 9445—125 9460—125 9480—125	24227	Teknational Industries, Incorporated 391 Gregory Street Rochester, NY 14620-1103 Phone: (716) 473-6310 Facsimile: (716) 473-6324 e-mail: sales@teknational.com URL: www.teknational.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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