

MIL-STD-1837
20 March 1987

MILITARY STANDARD

MISCELLANEOUS ELECTRICAL AND ELECTRONIC COMPONENTS,

SELECTION AND USE OF



AMSC N/A

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FSC 5999

MIL-STD-1837

DEPARTMENT OF DEFENSE
WASHINGTON, DC 20301

Miscellaneous Electrical and Electronic Components, Selection and Use of.

1. This military standard is approved for use by all Departments and Agencies at the Department of Defense.

2. Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Electronic Support Division AFLC, 2750 ABW/ES, Gentile Air Force Station, Dayton, OH 45444-4500 by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

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FOREWORD

This standard provides a list of miscellaneous electrical and electronic components and materials for use in the design of military equipment.

The application information and performance characteristics contained in this standard are offered for guidance and are not to be considered as mandatory.

Additions to this standard will be added when coordinated with the three military departments.

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1. SCOPE

1.1 Scope. This standard consists of the following:

- a. Standard delay lines.
- b. Standard EMI/RFI gaskets.
- c. Standard card holders.
- d. Standard card ejectors.
- e. Standard heat sinks.
- f. Standard mounting pads.

This standard shall not cover Printed Wiring Boards, Printed Wiring Assemblies or items not covered by FSC 5999.

1.2 Purpose. The purpose of this standard is to:

- a. Provide the designers of new equipment with a selection of standard items for military applications.
- b. Control and minimize the variety of items used in military equipment in order to facilitate logistic support of the equipment in the field.
- c. Outline criteria pertaining to the use of items for design purposes for new equipment.

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2. REFERENCED DOCUMENTS

2.1 Government documents.

2.1.1 Specifications and handbooks. Unless otherwise specified, the following specifications and handbooks of the issue listed in that issue of the Department of Defense Index of Specifications and Standards specified in the solicitation form a part of this standard to the extent specified herein.

SPECIFICATIONS

MILITARY

MIL-D-23859	-	Delay Lines, Pulse, Electromagnetic, Fixed, General Specification for.
MIL-M-38527	-	Mounting Pads, Electrical-electronic Component, General Specification for.
MIL-G-93528	-	Gaskets, Shielding, Elastomer Electrical, EMI/RFI, General Specification for.
MIL-H-87111	-	Heat Sinks, Semiconductor Devices, General Specification for.

HANDBOOKS

FEDERAL

H-6	-	Alphabetic Index of Names.
H2-2	-	Cataloging Handbook.

2.1.2 Other Government drawings. The following other Government drawings form a part of this standard to the extent specified herein.

Drawings

83023	-	Extractor, Electrical Card, Plastic.
84006	-	Electrical Card Holders.
84035	-	Delay Lines, 10-Tap, Dual-In-Line, 16-PIN.
84087	-	Delay Lines, 1 to 5 Taps, 14 PIN DIP Compatible, T ² L Interfaced.
84101	-	Electrical Card Holders.
84103	-	Electrical Card Holders, Retainers.
84168	-	Electrical Card Holders/Retainers.
84191	-	Extractor, Electrical Card, Metal.
85008	-	Delay Lines, 5 Taps, 14 PIN DIP, TTL Interfaced.
85009	-	Delay Lines, Two Delay Lines, 14 PIN DIP, TTL Interfaced.
85012	-	Delay Lines, 20-Tap, Dual-in-Line, 24 PIN.
85013	-	Delay Lines, 5 Taps, 14 PIN DIP Compatible, TTL Interfaced.
85014	-	Delay Lines, 10 Taps, 14 PIN DIP, TTL Interfaced.
85019	-	Delay Lines, Programmable 16 PIN Compatible, 3 BIT, TTL Compatible.
85020	-	Holder, Electrical, Card.
85021	-	Holder, Electrical, Card.
85032	-	Electrical Solder Clips.
85033	-	Holder, Electrical Card.
85034	-	Holder, Electrical Card.
85036	-	Holder, Electrical, Spacer.
85067	-	Electrical Card Holders.
85069	-	Holder, Electrical Card.
85075	-	Support, Electrical Card Holder, Bar Mounting.

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85076	-	Holder, Electrical Card.
85077	-	Clip, Electrical.
85078	-	Delay Lines, Programmable 3 Bit, 16 PIN DIP Compatible, Emitter-Coupled Logic.
85099	-	Gaskets, Shielding, EMI/RFI Elastomer, Mounting Flange.
85100	-	Gaskets, Shielding, EMI/RFI Elastomer, Rectangular, D Cross Section.
85103	-	Gaskets, Shielding, EMI/RFI Elastomer, Solid Circular Strip.
85104	-	Gaskets, Shielding, EMI/RFI, Elastomer, Solid P-Shaped Strip.
85105	-	Gaskets, Shielding, EMI/RFI, O-Ring Circular, Cross Section.
85106	-	Gaskets, Shielding, EMI/RFI Elastomer, Hollow D-Strip.
85107	-	Gaskets, Shielding, EMI/RFI Elastomer, Hollow P-Strip.
85108	-	Gaskets, Shielding, EMI/RFI Elastomer, Solid Rectangular Strips.
85109	-	Gaskets, Shielding, EMI/RFI, Elastomer, Channel Strips.
85110	-	Gaskets, Shielding, EMI/RFI, Elastomer, Hollow O-Strips.
85111	-	Gaskets, Shielding, EMI/RFI, Elastomer, Flat Circular Washers.
85118	-	Gaskets, Shielding, EMI/RFI, Elastomer, D-Cross Section Waveguide.
85151	-	Delay Line, Three Delay Lines, 14 PIN DIP Compatible, TTL Compatible.

(Copies of specifications, handbooks, and drawings required by contractors in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting officer.

2.2 Order of precedence. In the event of a conflict between the text of this standard and the references cited herein, the references shall take precedence.

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3. DEFINITIONS

3.1 Definition of item names (H-6). Definitions of item names are in the Federal Item Name Directory for Supply Cataloging, H-6, section A.

3.2 Definition of item names (H2-2). A complete list of item names in FSC 5999 can be found in Cataloging Handbook H2-2.

3.3 Definitions. The meaning of terms used in this standard are in accordance with referenced military specifications and drawings.

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4. GENERAL REQUIREMENTS

4.1 Item identification. Part numbers are used to identify the items listed in this standard, and shall be as specified in the individual specification or drawing.

4.2 Conflict of requirements. In the event of conflict between the technical requirements of items described in this standard and the applicable specification or drawing, the specification or drawing shall govern.

4.3 Criteria for inclusion in this standard. The criteria for inclusion in this standard are as follows:

- a. The items are classified in FSC 5999.
- b. The items shall be the best type available for general use in military equipment.
- c. The item is covered by a military specification or drawing.
- d. The item shall be available from at least one source.
- e. The items shall be used for design purposes in new equipment.

4.4 Order of preference. The order of preference shall be as follows:

- a. Military specification parts.
- b. Drawing parts.
- c. Other parts.

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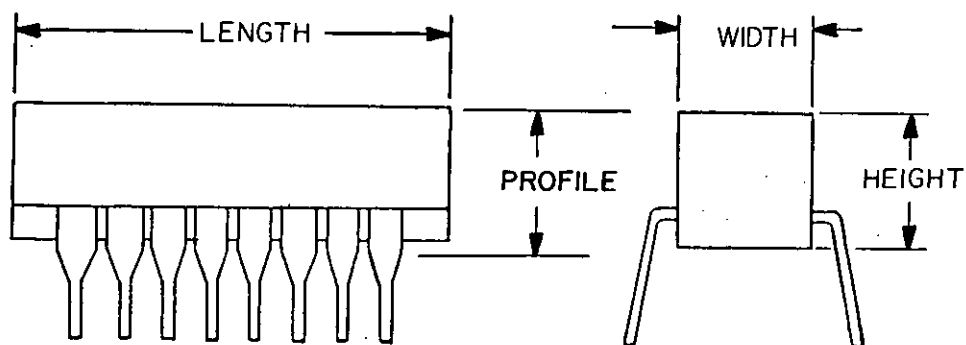
5. DETAILED REQUIREMENTS

5.1 Detailed requirements. The detailed requirements for standard items are contained in the applicable specification or drawing and the applicable section of this standard.

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SECTION 100
DELAY LINES, PASSIVE

Impedance ohms	Number of taps	Table	Page
50	10	100.I	100.2
50	20	100.II	100.2
100	10	100.III	100.3
100	20	100.IV	100.4
200	10	100.V	100.5
200	20	100.VI	100.6
250	10	100.VII	100.7
250	20	100.VIII	100.7
300	10	100.IX	100.7
360	10	100.X	100.8
400	10	100.XI	100.9
500	10	100.XII	100.9
500	20	100.XIII	100.10

FIGURE 100.1. Delay lines, passive.

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TABLE 100.I 50 ohms, 10 taps.

Total delay (ns)	Package XX DIP	Part number	Length inches	Width inches	Height inches
5	14	M23859/23-001	.750	.300	.187
10	14	M23859/23-002	"	"	"
15	14	M23859/23-003	"	"	"
20	14	M23859/23-004	"	"	"
25	14	M23859/23-005	"	"	"
30	14	M23859/23-006	"	"	"
35	14	M23859/23-007	"	"	"
40	14	M23859/23-008	"	"	"
45	14	M23859/23-009	"	"	"
50	14	M23859/23-010	"	"	"
55	14	M23859/23-011	"	"	"
60	14	M23859/23-012	"	"	"
65	14	M23859/23-013	"	"	"
70	14	M23859/23-014	"	"	"
75	14	M23859/23-015	"	"	"
80	14	M23859/23-016	"	"	"
85	14	M23859/23-017	"	"	"
90	14	M23859/23-018	"	"	"
95	14	M23859/23-019	"	"	"
100	14	M23859/23-020	"	"	"
110	14	M23859/23-021	"	"	"
120	14	M23859/23-022	"	"	"
130	14	M23859/23-023	"	"	"
140	14	M23859/23-024	"	"	"
150	14	M23859/23-025	"	"	"
160	14	M23859/23-026	"	"	"
170	14	M23859/23-027	"	"	"
180	14	M23859/23-028	"	"	"
190	14	M23859/23-029	"	"	"
200	14	M23859/23-030	"	"	"

TABLE 100.II 50 ohms, 20 taps.

Total delay	Package XX DIP	Part number	Length inches	Width inches	Height inches
50	24	85012-01	1.270	.580	.280
60	24	85012-02	"	"	"
80	24	85012-03	"	"	"
100	24	85012-04	"	"	"
150	24	85012-05	"	"	"
200	24	85012-06	"	"	"

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TABLE 100.III 100 ohms, 10 taps.

Total delay (ns)	Package XX DIP	Part number	Length inches	Width inches	Height inches
5	14	M23859/23-101	.750	.300	.187
10	14	M23859/23-102	"	"	"
15	14	M23859/23-103	"	"	"
20	14	M23859/23-104	"	"	"
25	14	M23859/23-105	"	"	"
30	14	M23859/23-106	"	"	"
35	14	M23859/23-107	"	"	"
40	14	M23859/23-108	"	"	"
45	14	M23859/23-109	"	"	"
50	14	M23859/23-110	"	"	"
55	14	M23859/23-111	"	"	"
60	14	M23859/23-112	"	"	"
65	14	M23859/23-113	"	"	"
70	14	M23859/23-114	"	"	"
75	14	M23859/23-115	"	"	"
80	14	M23859/23-116	"	"	"
85	14	M23859/23-117	"	"	"
90	14	M23859/23-118	"	"	"
95	14	M23859/23-119	"	"	"
100	14	M23859/23-120	"	"	"
110	14	M23859/23-121	"	"	"
120	14	M23859/23-122	"	"	"
130	14	M23859/23-123	"	"	"
140	14	M23859/23-124	"	"	"
150	14	M23859/23-125	"	"	"
160	14	M23859/23-126	"	"	"
170	14	M23859/23-127	"	"	"
180	14	M23859/23-128	"	"	"
190	14	M23859/23-129	"	"	"
200	14	M23859/23-130	"	"	"
210	14	M23859/23-131	"	"	"
220	14	M23859/23-132	"	"	"
230	14	M23859/23-133	"	"	"
240	14	M23859/23-134	"	"	"
250	14	M23859/23-135	"	"	"
260	14	M23859/23-136	"	"	"
270	14	M23859/23-137	"	"	"
280	14	M23859/23-138	"	"	"
290	14	M23859/23-139	"	"	"
300	14	M23859/23-140	"	"	"
310	14	M23859/23-141	"	"	"
320	14	M23859/23-142	"	"	"
330	14	M23859/23-143	"	"	"
340	14	M23859/23-144	"	"	"
350	14	M23859/23-145	"	"	"

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TABLE 100.III 100 ohms, 10 taps - Continued.

Total delay (ns)	Package XX DIP	Part number	Length inches	Width inches	Height inches
360	14	M23859/23-146	.750	.300	.187
370	14	M23859/23-147	"	"	"
380	14	M23859/23-148	"	"	"
390	14	M23859/23-149	"	"	"
400	14	M23859/23-150	"	"	"
410	14	M23859/23-151	"	"	"
420	14	M23859/23-152	"	"	"
430	14	M23859/23-153	"	"	"
440	14	M23859/23-154	"	"	"
450	14	M23859/23-155	"	"	"
460	14	M23859/23-156	"	"	"
470	14	M23859/23-157	"	"	"
480	14	M23859/23-158	"	"	"
490	14	M23859/23-159	"	"	"
500	14	M23859/23-160	"	"	"

TABLE 100.IV 100 ohms, 20 taps.

Total delay (ns)	Package XX DIP	Part number	Length inches	Width inches	Height inches
50	24	85012-07	1.270	.580	.280
60	24	85012-08	"	"	"
80	24	85012-09	"	"	"
100	24	85012-10	"	"	"
150	24	85012-11	"	"	"
200	24	85012-12	"	"	"
300	24	85012-13	"	"	"
400	24	85012-14	"	"	"
500	24	85012-45	"	"	"

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TABLE 100.V. 200 ohms, 10 taps.

Total delay (ns)	Package XX DIP	Part number	Length inches	Width inches	Height inches
5	14	M23859/23-201	.750	.300	.187
10	14	M23859/23-202	"	"	"
15	14	M23859/23-203	"	"	"
20	14	M23859/23-204	"	"	"
25	14	M23859/23-205	"	"	"
30	14	M23859/23-206	"	"	"
35	14	M23859/23-207	"	"	"
40	14	M23859/23-208	"	"	"
45	14	M23859/23-209	"	"	"
50	14	M23859/23-210	"	"	"
55	14	M23859/23-211	"	"	"
60	14	M23859/23-212	"	"	"
65	14	M23859/23-213	"	"	"
70	14	M23859/23-214	"	"	"
75	14	M23859/23-215	"	"	"
80	14	M23859/23-216	"	"	"
85	14	M23859/23-217	"	"	"
90	14	M23859/23-218	"	"	"
95	14	M23859/23-219	"	"	"
100	14	M23859/23-220	"	"	"
110	14	M23859/23-221	"	"	"
120	14	M23859/23-222	"	"	"
130	14	M23859/23-223	"	"	"
140	14	M23859/23-224	"	"	"
150	14	M23859/23-225	"	"	"
160	14	M23859/23-226	"	"	"
170	14	M23859/23-227	"	"	"
180	14	M23859/23-228	"	"	"
190	14	M23859/23-229	"	"	"
200	14	M23859/23-230	"	"	"
210	14	M23859/23-231	"	"	"
220	14	M23859/23-232	"	"	"
230	14	M23859/23-233	"	"	"
240	14	M23859/23-234	"	"	"
250	14	M23859/23-235	"	"	"
260	14	M23859/23-236	"	"	"
270	14	M23859/23-237	"	"	"
280	14	M23859/23-238	"	"	"
290	14	M23859/23-239	"	"	"
300	14	M23859/23-240	"	"	"
310	14	M23859/23-241	"	"	"
320	14	M23859/23-242	"	"	"
330	14	M23859/23-243	"	"	"

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TABLE 100.V 200 ohms, 10 taps - Continued.

Total delay (ns)	Package XX DIP	Part number	Length inches	Width inches	Height inches
340	14	M23859/23-244	.750	.300	.187
350	14	M23859/23-245	"	"	"
360	14	M23859/23-246	"	"	"
370	14	M23859/23-247	"	"	"
380	14	M23859/23-248	"	"	"
390	14	M23859/23-249	"	"	"
400	14	M23859/23-250	"	"	"

TABLE 100.VI 200 ohms, 20 taps.

Total delay (ns)	Package XX DIP	Part number	Length inches	Width inches	Height inches
40	24	85012-15	1.270	.580	.280
80	24	85012-16	"	"	"
120	24	85012-17	"	"	"
200	24	85012-18	"	"	"
300	24	85012-19	"	"	"
400	24	85012-20	"	"	"
500	24	85012-21	"	"	"
600	24	85012-22	"	"	"
800	24	85012-23	"	"	"

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TABLE 100.VII 250 ohms, 10 taps.

Total delay (ns)	Package XX DIP	Part number	Length inches	Width inches	Height inches
50	16	84035-35	.900	.280	.280
75	16	84035-36	"	"	"
100	16	84035-37	"	"	"
125	16	84035-38	"	"	"
150	16	84035-39	"	"	"
200	16	84035-40	"	"	"
225	16	84035-41	"	"	"
300	16	84035-42	"	"	"
375	16	84035-43	"	"	"
500	16	84035-44	"	"	"

TABLE 100.VIII 250 ohms, 20 taps.

Total delay (ns)	Package XX DIP	Part number	Length inches	Width inches	Height inches
50	24	85012-24	1.270	.580	.280
100	24	85012-25	"	"	"
150	24	85012-26	"	"	"
200	24	85012-27	"	"	"
250	24	85012-28	"	"	"
300	24	85012-29	"	"	"
400	24	85012-30	"	"	"
500	24	85012-31	"	"	"
600	24	85012-32	"	"	"
800	24	85012-33	"	"	"
1000	24	85012-34	"	"	"

TABLE 100.IX 300 ohms, 10 taps.

Total delay (ns)	Package XX DIP	Part number	Length inches	Width inches	Height inches
30	16	84035-45	.900	.280	.280
60	16	84035-46	"	"	"
90	16	84035-47	"	"	"
125	16	84035-48	"	"	"
150	16	84035-49	"	"	"
180	16	84035-50	"	"	"
240	16	84035-51	"	"	"
270	16	84035-52	"	"	"
360	16	84035-53	"	"	"
450	16	84035-54	"	"	"
600	16	84035-55	"	"	"

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TABLE 100.X 360 ohms, 10 taps.

Total delay (ns)	Package XX DIP	Part number	Length inches	Width inches	Height inches
5	14	M23859/23-301	.750	.300	.187
10	14	M23859/23-302	"	"	"
15	14	M23859/23-303	"	"	"
20	14	M23859/23-304	"	"	"
25	14	M23859/23-305	"	"	"
30	14	M23859/23-306	"	"	"
35	14	M23859/23-307	"	"	"
40	14	M23859/23-308	"	"	"
45	14	M23859/23-309	"	"	"
50	14	M23859/23-310	"	"	"
55	14	M23859/23-311	"	"	"
60	14	M23859/23-312	"	"	"
65	14	M23859/23-313	"	"	"
70	14	M23859/23-314	"	"	"
75	14	M23859/23-315	"	"	"
80	14	M23859/23-316	"	"	"
85	14	M23859/23-317	"	"	"
90	14	M23859/23-318	"	"	"
95	14	M23859/23-319	"	"	"
100	14	M23859/23-320	"	"	"
110	14	M23859/23-321	"	"	"
120	14	M23859/23-322	"	"	"
130	14	M23859/23-323	"	"	"
140	14	M23859/23-324	"	"	"
150	14	M23859/23-325	"	"	"
160	14	M23859/23-326	"	"	"
170	14	M23859/23-327	"	"	"
180	14	M23859/23-328	"	"	"
190	14	M23859/23-329	"	"	"
200	14	M23859/23-330	"	"	"
210	14	M23859/23-331	"	"	"
220	14	M23859/23-332	"	"	"

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TABLE 100.XI 400 ohms, 10 taps.

Total delay (ns)	Package XX DIP	Part number	Length inches	Width inches	Height inches
40	16	84035-56	.900	.280	.280
80	16	84035-57	"	"	"
120	16	84035-58	"	"	"
160	16	84035-59	"	"	"
200	16	84035-60	"	"	"
240	16	84035-61	"	"	"
320	16	84035-62	"	"	"
360	16	84035-63	"	"	"
480	16	84035-64	"	"	"
600	16	84035-65	"	"	"
800	16	84035-66	"	"	"

TABLE 100.XII 500 ohms, 10 taps.

Total delay (ns)	Package XX DIP	Part number	Length inches	Width inches	Height inches
5	14	M23859/23-401	.750	.300	.187
10	14	M23859/23-402	"	"	"
15	14	M23859/23-403	"	"	"
20	14	M23859/23-404	"	"	"
25	14	M23859/23-405	"	"	"
30	14	M23859/23-406	"	"	"
35	14	M23859/23-407	"	"	"
40	14	M23859/23-408	"	"	"
45	14	M23859/23-409	"	"	"
50	14	M23859/23-410	"	"	"
55	14	M23859/23-411	"	"	"
60	14	M23859/23-412	"	"	"
65	14	M23859/23-413	"	"	"
70	14	M23859/23-414	"	"	"
75	14	M23859/23-415	"	"	"
80	14	M23859/23-416	"	"	"
85	14	M23859/23-417	"	"	"
90	14	M23859/23-418	"	"	"
95	14	M23859/23-419	"	"	"
100	14	M23859/23-420	"	"	"
110	14	M23859/23-421	"	"	"
120	14	M23859/23-422	"	"	"
130	14	M23859/23-423	"	"	"
140	14	M23859/23-424	"	"	"
150	14	M23859/23-425	"	"	"

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TABLE 100.XII 500 ohms, 10 taps - Continued.

Total delay (ns)	Package XX DIP	Part number	Length inches	Width inches	Height inches
250	16	84035-71	.900	.280	.280
300	16	84035-72	"	"	"
400	16	84035-73	"	"	"
450	16	84035-74	"	"	"
500	16	84035-75	"	"	"
600	16	84035-76	"	"	"
750	16	84035-77	"	"	"
1000	16	84035-78	"	"	"

TABLE 100.XIII 500 ohms, 20 taps.

Total delay (ns)	Package XX DIP	Part number	Length inches	Width inches	Height inches
200	24	85012-35	1.270	.580	.280
300	24	85012-36	"	"	"
400	24	85012-37	"	"	"
500	24	85012-38	"	"	"
600	24	85012-39	"	"	"
800	24	85012-40	"	"	"
1000	24	85012-41	"	"	"
1200	24	85012-42	"	"	"
1500	24	85012-43	"	"	"
2000	24	85012-44	"	"	"

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SECTION 200

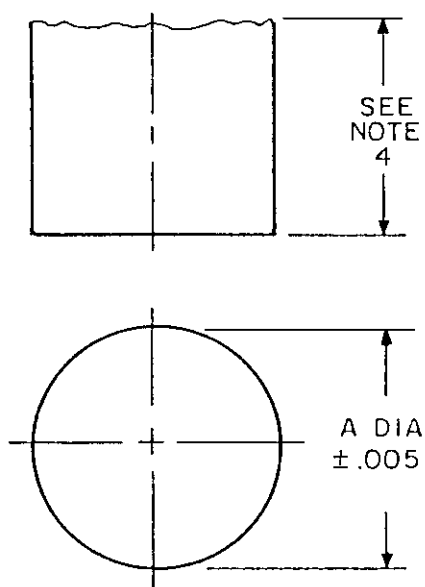
EMI GASKETS

Shape	Material type	Drawing	Figure	Page
Solid circular strip	A, B, E, H, J, K	85103	200.1	200.2
Mounting flange	A, B, E, H, J, K	85099	200.2	200.3
Solid P strip	A, B, E	85104	200.3	200.6
O-ring, O X-section	A, B, E, H, J, K	85105	200.4	200.7
Hollow D strip	A, B, E	85106	200.5	200.9
Hollow P strip	A, B, E	85107	200.6	200.10
Solid rectangular strip	A, B, E	85108	200.7	200.11
Channel strip	A, B, E	85109	200.8	200.12
Hollow O strip	A, B, E	85110	200.9	200.13
Flat circular washers	A, B, E, H, J, K	85111	200.10	200.14
O-ring, D X-section	A, B, E, H	85118	200.11	200.15

Material type

- A Silver-plated copper-filled silicone capable of 110 dB of plane wave shielding effectiveness at 2 GHz with a continuous use temperature range of -55°C to +125°C.
- B Silver-plated aluminum-filled silicone capable of 100 dB of plane wave shielding effectiveness at 2 GHz with a continuous use temperature range of -65°C to +160°C.
- C Silver-plated copper-filled fluorosilicone capable of 110 dB of plane wave shielding effectiveness at 2 GHz with a continuous use temperature range of -55°C to +125°C and resistant to solvents and jet fuels.
- D Silver-plated aluminum-filled fluorosilicone capable of 90 dB of plane wave shielding effectiveness at 2 GHz, and resistant to solvents and jet fuels with a continuous use temperature range of -55°C to +160°C.
- E A medium durometer, pure silver-filled silicone capable of 110 dB of plane wave shielding effectiveness at 2 GHz with a continuous use temperature range of -55°C to +160°C.
- F Pure silver-filled fluorosilicone capable of 110 dB of plane wave shielding effectiveness at 2 GHz with a continuous use temperature range of -65°C to +160°C and resistant to solvents and jet fuels.
- G Silver-plated copper-filled silicone, expand copper foil reinforced capable of 110 dB of plane wave shielding effectiveness at 2 GHz with a continuous use temperature range of -45°C to +125°C.
- H A high durometer, pure silver-filled silicone capable of 110 dB of plane wave shielding effectiveness at 2 GHz with a continuous use temperature range of -55°C to +160°C.
- J A low durometer, pure silver-filled silicone, capable of 80 dB of plane wave shielding effectiveness of 2 GHz with a continuous use temperature range of -55°C to +160°C.
- K A high durometer, silver-plated copper-filled silicone, capable of 110 dB of plane wave shielding effectiveness of 2 GHz with a continuous use temperature range of -45°C to +125°C.

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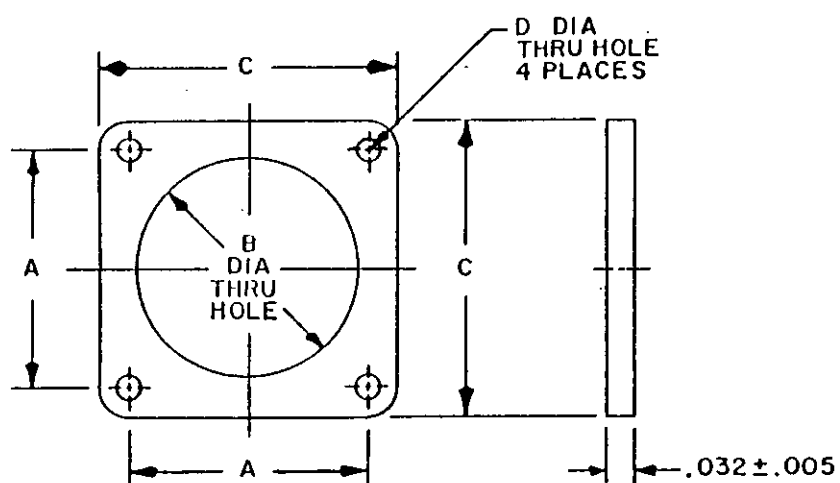
Dash number	Dimension A ±.005 inches
001	.040
002	.053
003	.062
004	.070
005	.093
006	.103
007	.119
008	.125
009	.139
010	.216

NOTES:

1. Length shall be specified on the purchase order.

FIGURE 200.1. 85103.

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NOTES:
1. Dimensions are in inches.

FIGURE 200.2. 85099.

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Dash Number	A ±.010	B +.020 -.000	C ±.015 ±.010	D ±.010	Connector shell size									
					MIL-C-38999				MIL-C-15015					
					Series I	Series II	Series III	Series IV	MIL-C-81511	MS90484	MIL-C-15015	MIL-C-83723	NAS 1599	MIL-C-26482
01	.469	.375	.738	.141								6	6	6
02	.594	.630	.840	.135		8								
03	.594	.568	.812	.125					8	8				
04	.594	.500	.875	.156										
05	.719	.750	.965	.135	9	10					8	8	8	8
06	.719	.680	.937	.125					10	10				
07	.719	.625	1.000	.156							10	10	10	10
08	.812	.875	1.050	.141	11	12	11							
09	.813	.750	1.094	.141							12	12	12	12
10	.906	1.005	1.153	.135	13	14	13							
11	.906	.938	1.125	.125					14	14				
12	.906	.875	1.188	.156							14	14	14	14
13	.969	1.135	1.258	.156	15	16	15							
14	.969	1.063	1.250	.125					16	16				
15	.969	1.000	1.281	.156							16	16	16	16
16	1.062	1.260	1.351	.156	17	18	17							
17	1.052	1.189	1.343	.125					18	18				

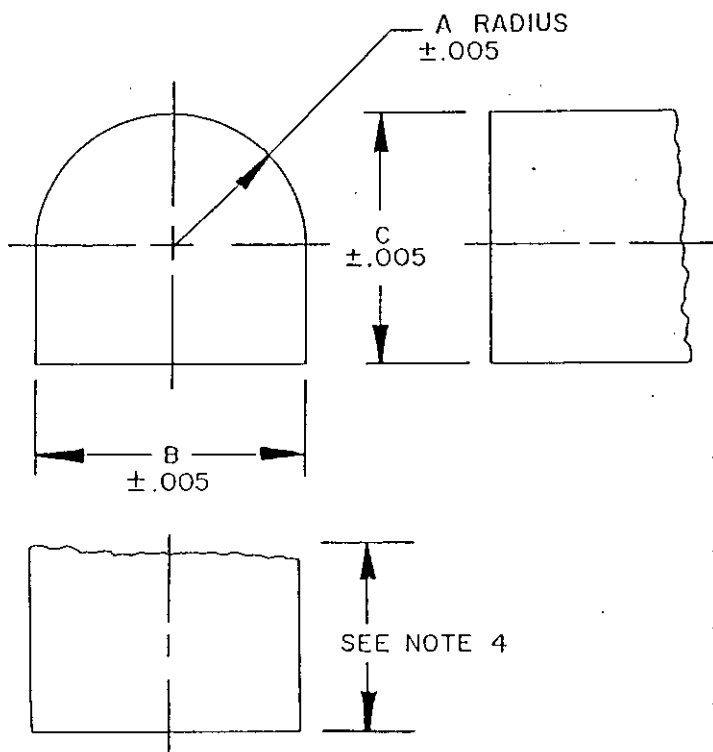
FIGURE 200.2. 95099 - Continued.

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Dash Number	A ±.010	B +.020 -.000	C ±.015	D ±.010	Connector shell size									
					MIL-C-38999				MIL-C-81511					
					Series I	Series II	Series IV	Series 81511	NS90484	MIL-C- 5015	MIL-C- 183723	NAS 1599	MIL-C- 26482	
18	1.062	1.135	1.375	.156							18	18	18	18
19	1.156	1.375	1.500	.141	19	20	19							
20	1.156	1.312	1.467	.125				20	20					
21	1.156	1.250	1.500	.172						20	20	20	20	20
22	1.250	1.500	1.625	.141	21	21	21							
23	1.250	1.437	1.562	.125				22	22					
24	1.250	1.375	1.625	.172						22	22	22	22	22
25	1.375	1.625	1.750	.172	23	24	23							
26	1.375	1.563	1.703	.152					24	24				
27	1.375	1.500	1.750	.203							24	24	24	24
28	1.500	1.750	1.875	.172	25		25							
29	1.562	1.750	2.000	.203										
30	1.750	2.000	2.250	.219							28	28	28	28
31	1.938	2.250	2.500	.219								32	32	32
32	2.188	2.500	2.750	.219								35	36	36
33	2.375	2.751	3.000	.219								40	40	40
34	2.625	3.031	3.250	.219								44	44	44
												48	48	48

FIGURE 200.2. 65099 - Continued.

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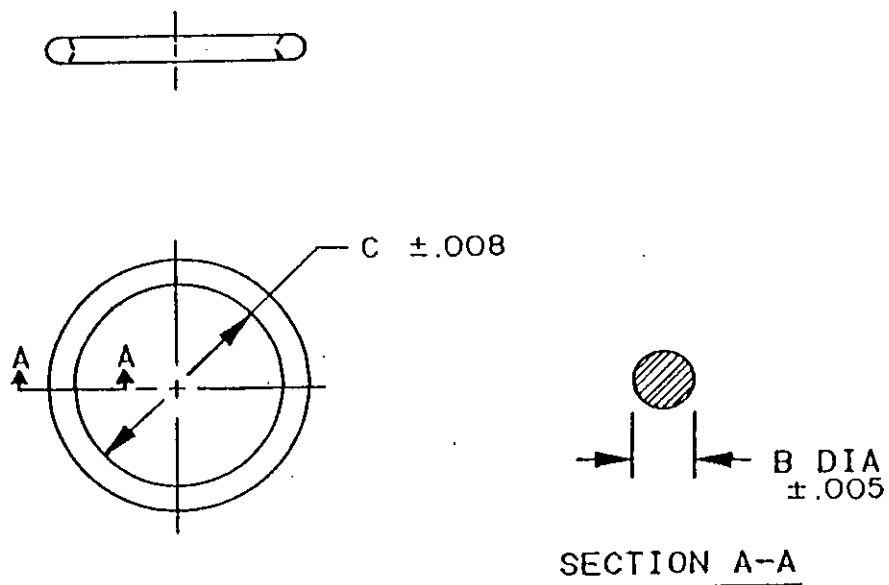
Dash number	Dimension A ±.005	Dimension B ±.005	Dimension C ±.005
001	.031	.055	.064
002	.031	.062	.068
003	.047	.094	.078
004	.039	.078	.089
005	.031	.062	.100
006	.075	.150	.110
007	.061	.124	.135
008	.059	.118	.156
009	.089	.178	.175

NOTES:

1. Dimensions are in inches.
2. Length shall be as specified on the purchase order.

FIGURE 200.3. 85104.

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NOTES:

1. Dimensions are in inches.
2. Molding flash of 0.035 inch width maximum and 0.005 thickness maximum is allowed.
3. Tolerance on B dimension is $+.015$ for dash number 084 only.

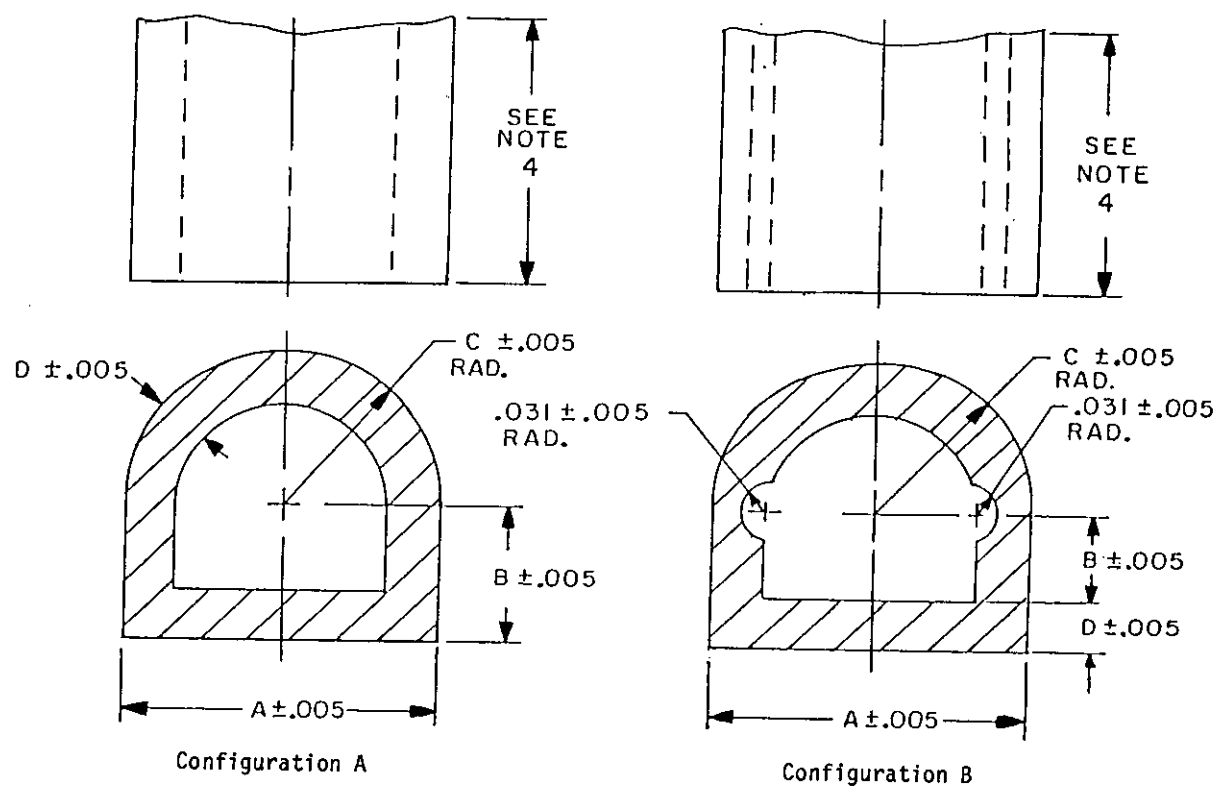
FIGURE 200.4. 85105.

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Dash number	Dimensions	
	B ±.005	C ±.005
015	0.070	0.145
016	0.070	0.301
017	0.070	0.364
018	0.070	0.426
019	0.070	0.489
021	0.070	0.551
025	0.070	0.676
028	0.070	0.739
029	0.070	0.801
031	0.070	0.864
032	0.070	0.926
033	0.070	0.989
036	0.070	1.114
039	0.070	1.239
042	0.070	1.364
066	0.103	0.612
067	0.103	0.799
070	0.103	1.362
071	0.103	1.487
073	0.103	1.737
075	0.103	2.362
076	0.103	3.987

FIGURE 200.4. 95105 - Continued.

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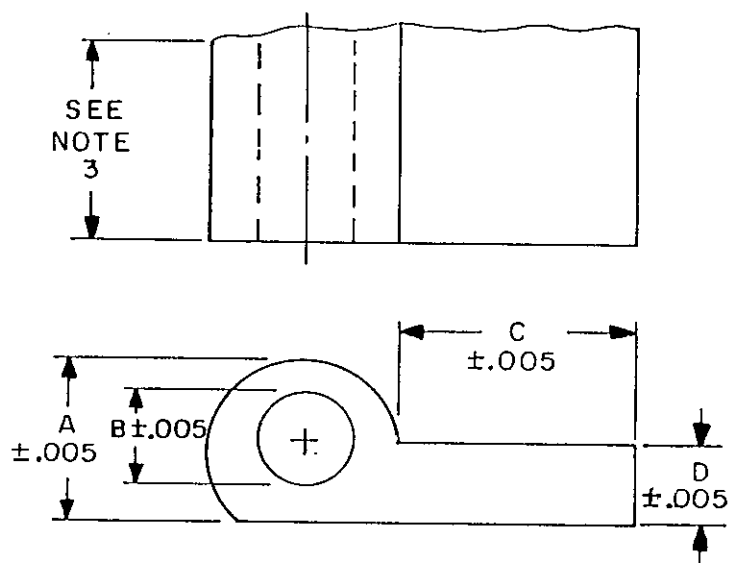
Dash number	Nominal dimensions				Configuration
	A	B	C(rad.)	D	
001	.156	.078	.078	.045	A
002	.187	.093	.093	.050	A
003	.312	.156	.156	.062	A
004	.312	.156	.156	.062	B
005	.312	.200	.112	.062	A
006	.487	.080	.244	.080	A

NOTES:

1. Dimensions are in inches.
2. Length to be determined on purchase order.

FIGURE 200.5 85106.

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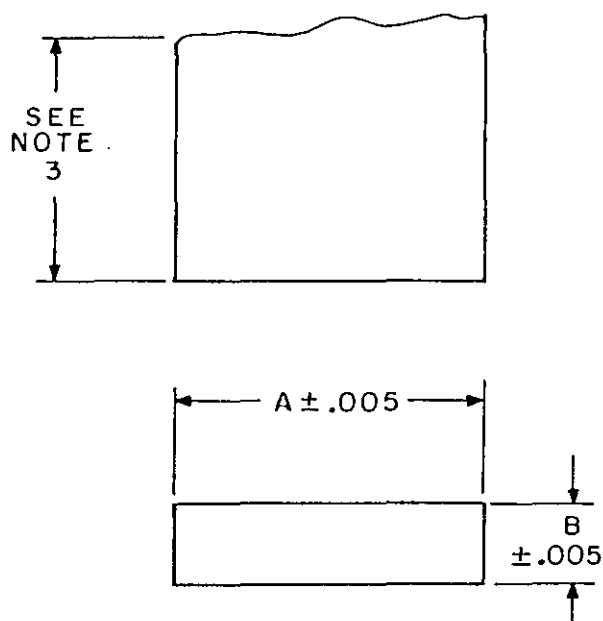
Dash number	Nominal dimensions			
	A	B(dia)	C	D
001	.200	.080	.650	.062
002	.250	.125	.250	.062
003	.250	.125	.375	.062
004	.250	.150	.375	.062
005	.312	.187	.563	.062
006	.360	.255	.420	.070

NOTES:

1. Dimensions are in inches.
2. Length to be determined on purchase order.

FIGURE 200.6. 85107.

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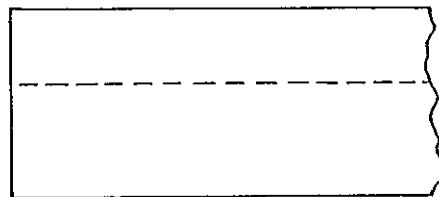
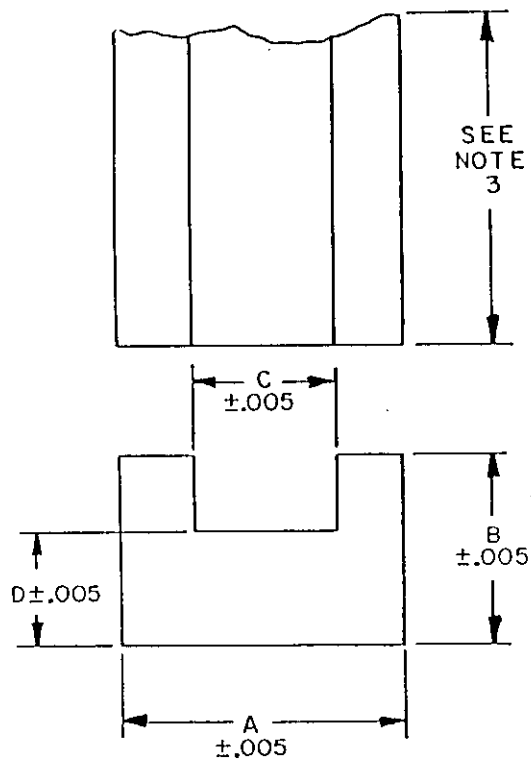
Dash number	Nominal dimensions		Dash number	Nominal dimensions	
	A	B		A	B
001	0.063	0.042	008	0.500	0.125
002	0.095	0.062	009	0.500	0.188
003	0.120	0.075	010	0.750	0.062
004	0.125	0.062	011	0.880	0.062
005	0.156	0.062	012	1.000	0.250
006	0.250	0.062	013	1.180	0.062
007	0.500	0.075			

NOTES:

1. Dimensions are in inches.
2. Length to be determined on purchase order.

FIGURE 200.7. 85108.

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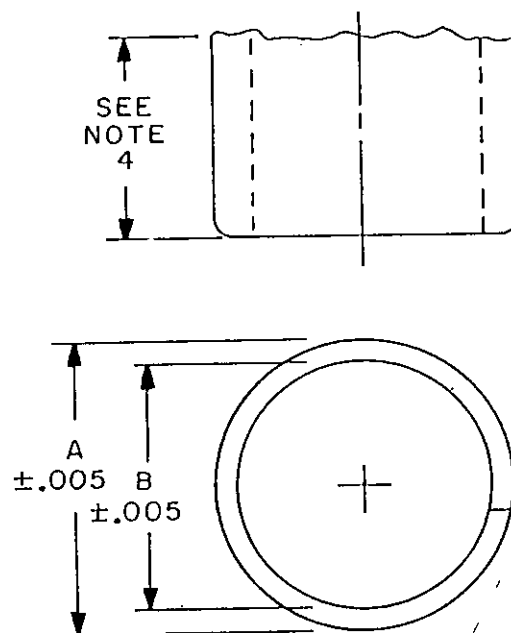
Dash number	Nominal dimensions			
	A	B	C	D
001	0.100	0.100	0.034	0.033
002	0.126	0.110	0.025	0.050
003	0.126	0.225	0.020	0.075
004	0.156	0.156	0.062	0.047
005	0.175	0.156	0.047	0.075
006	0.327	0.235	0.062	0.115

NOTES:

1. Dimensions are in inches.
2. Length to be determined on purchase order.

FIGURE 200.8. 85109.

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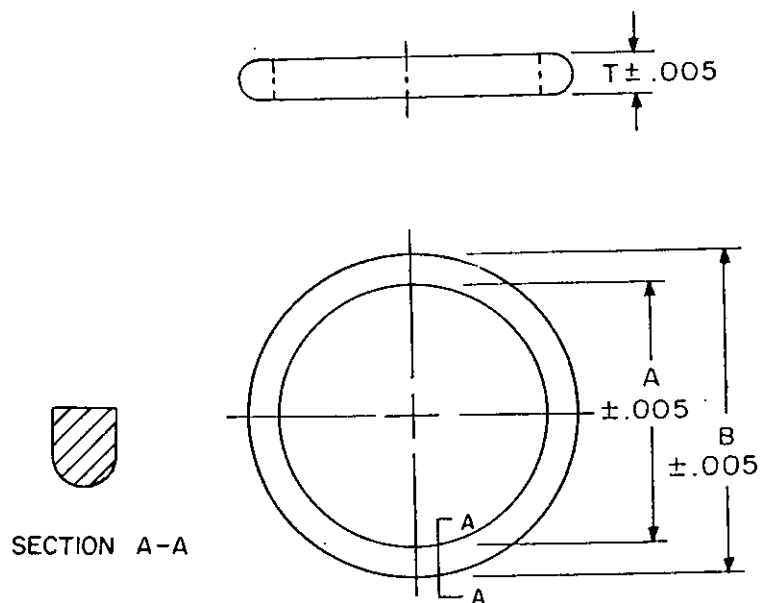
Dash number	Dimensions	
	A	B
001	0.125	0.045
002	0.156	0.050
003	0.250	0.125
004	0.312	0.192
005	0.375	0.250
006	0.437	0.250

NOTES:

1. Dimensions are in inches.
2. Length to be determined on purchase order.

FIGURE 200.9. 85110.

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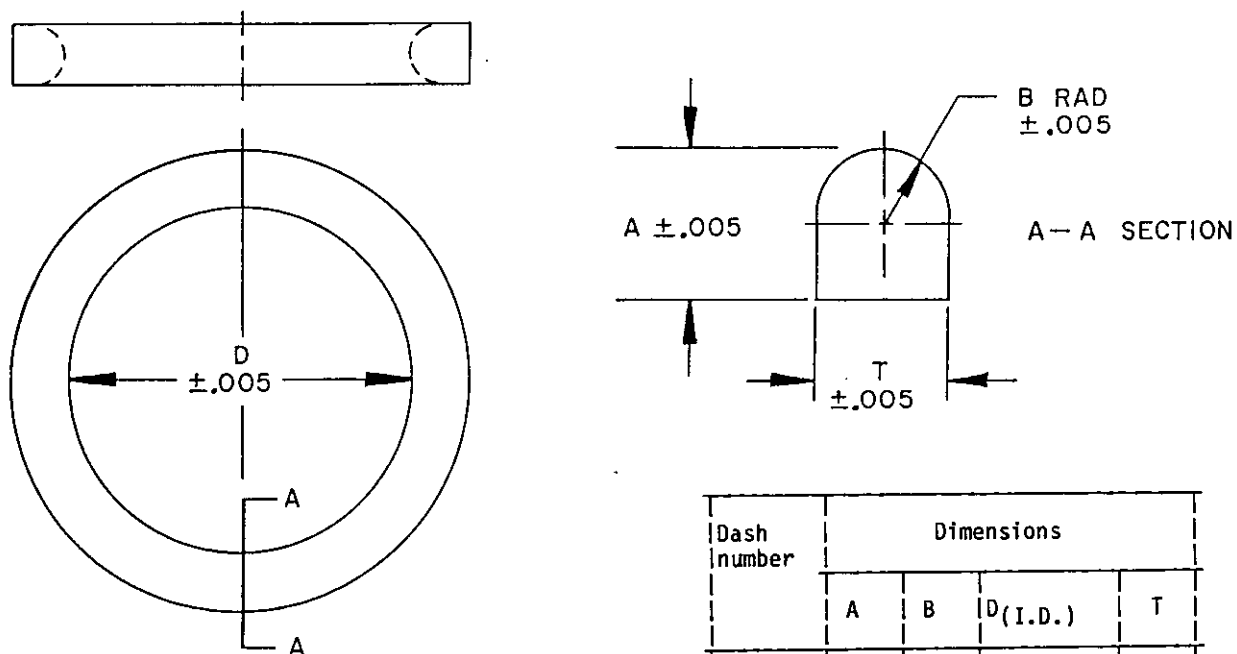
Dash number	Nominal diameters		Thickness
	A	B	
001	0.250	0.625	0.031
002			0.062
003	0.375	0.750	0.031
004			0.062
005	0.500	0.655	0.031
006			0.062
007	0.500	0.875	0.031
008			0.062
009	0.750	1.000	0.031
010			0.062
011	1.000	1.438	0.031
012			0.062

NOTES:

1. Dimensions are in inches.

FIGURE 200.10. 85111.

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Dash number	Dimensions			
	A	B	D (I.D.)	T
001	.056	.041	.410	.082
002	.048	Full Rad.	.587	.078
003	.125	Full Rad.	.885	.155
004	.065	.049	1.122	.099
005	.077	Full Rad.	1.310	.115
006	.088	Full Rad.	1.340	.095
007	.085	Full Rad.	1.392	.095
008	.078	Full Rad.	1.550	.105
009	.188	Full Rad.	3.910	.240

NOTES:

1. Dimensions are in inches.
2. Molding flash of .005 (0.13 mm) in width maximum and .005 (0.13 mm) thickness maximum is allowed.

FIGURE 200.11. 85118.

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SECTION 300
ELECTRICAL CARD HOLDERS

Table	Material, slot width (inches)	Page
300.I	Metal, Any	300.2
300.II	Metal, .0312	300.2
300.III	Metal, .0625	300.3
300.IV	Metal, .0937	300.4
300.V	Metal, .125	300.5
300.VI	Plastic, .063	300.5
300.VII	Plastic, .078	300.5
300.VIII	Plastic, .090	300.6
300.IX	Plastic, .050 to .100	300.6

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TABLE 300.I Electrical card holders, metal, any slot width.

Overall length inches	Mounting method	Drawing part number
3.0	2 holes	84103-01
3.2	"	" -02
3.7	"	" -03
4.0	"	" -04
5.0	"	" -05
5.5	"	" -06
6.0	"	" -07

TABLE 300.II Electrical card holders, metal, slot width .0312 inch.

Overall length inches	Mounting method	Drawing part number
2.0	2 holes	95020-002
2.5	"	" -026
3.0	"	" -050
3.5	"	" -074
4.0	"	" -098
4.5	"	" -122
5.0	"	" -146
5.5	"	" -170
6.0	"	" -194

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TABLE 300.III Electrical card holders, metal, slot width .0625 inch.

Overall length inches	Mounting method	Drawing part number
2.0	2 holes	85020-005
2.25	"	85034-01
2.50	"	85020-029
2.50	"	85021-002
3.00	"	84168-02
3.00	"	85020-053
3.00	"	85021-017
3.25	3 holes	85034-03
3.5	2 holes	84168-10
3.5	"	85020-077
3.5	"	85021-032
4.0	"	84168-18
4.0	"	85020-101
4.0	"	85021-047
4.25	4 holes	85034-05
4.5	2 holes	84168-26
4.5	2 holes	85020-125
4.5	3 holes	85033-001
5.0	"	84168-34
5.0	2 holes	85020-149
5.0	2 holes	85021-052
5.25	5 holes	85034-07
5.5	3 holes	84168-42
5.5	2 holes	85020-173
6.0	3 holes	84168-50
6.0	2 holes	85020-197
6.0	2 holes	85021-077
6.0	4 holes	85033-017
6.25	6 holes	85034-09
7.0	3 holes	84168-58
7.5	3 holes	84168-56
8.25	8 holes	85034-11
8.5	3 holes	84168-74

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TABLE 300.IV Electrical card holders, metal, slot width .0937 inch.

Overall length inches	Mounting method	Drawing part number
2.0 2.25 2.50 2.50	2 holes " " "	85020-008 85034-02 85020-032 85021-005
3.00 3.00 3.00 3.25 3.5 3.5 3.5	" " " 3 holes 2 holes " "	85020-056 85021-020 84168-04 85034-04 85020-080 85021-035 84168-12
4.0 4.0 4.0 4.25 4.5 4.5 4.5	" " " 4 holes 2 holes 2 holes 3 holes	85020-104 85021-050 84168-20 85034-06 84168-28 85020-128 85033-005
5.0 5.0 5.0 5.25 5.5 5.5	2 holes 2 holes 3 holes 5 holes 2 holes 3 holes	85020-152 85021-065 84168-36 85034-08 85020-176 84168-44
6.0 6.0 6.0 6.0 6.25	4 holes 2 holes 2 holes 3 holes 6 holes	85033-020 85020-200 85021-080 84168-52 85034-10
7.0 7.5	3 holes 3 holes	84168-50 84168-68
8.25 8.5	8 holes 3 holes	85034-12 84168-76

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TABLE 300.V Electrical card holders, metal, slot width .125 inch.

Overall length inches	Mounting method	Drawing part number
2.5	2 holes	85033-031
3.0	3 holes	85033-035
3.5	"	85033-039
4.0	"	85033-043
4.5	"	85033-047
5.0	4 holes	85033-051
5.5	"	85033-054
6.0	"	85033-057

TABLE 300.VI Electrical card holders, metal, slot width .063 inch.

Overall length inches	Mounting method	Drawing part number
2.0	2 holes	85068-01
3.5	"	85068-02
5.0	"	85068-03

TABLE 300.VII Electrical card holders, plastic, slot width .078 inch.

Overall length inches	Mounting method	Drawing part number
2.5	2 snaps	84006-01
3.0	"	84006-02
3.5	"	84006-03
4.0	"	84006-04
4.5	"	84006-05
5.0	"	84006-06
5.5	"	84006-07
6.0	"	84006-08
6.5	"	84006-09
7.0	"	84006-10
7.5	"	84006-11
8.0	"	84006-12
8.5	3 snaps	84006-13
9.0	"	84006-14
9.5	"	84006-15
10.0	"	84006-16
10.5	"	84006-17
11.0	"	84006-18
11.5	"	84006-19
12.0	"	84006-20
12.5	"	84006-21
13.0	"	84006-22
13.5	"	84006-23
14.0	"	84006-24

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TABLE 300.VIII Electrical card holders, plastic, slot width .080 inch.

Overall length inches	Mounting method	Drawing part number
2.50	2 snaps	84101-01
4.50	"	84101-02
6.00	"	84101-03
8.00	3 snaps	84101-04

TABLE 300.IX Electrical card holders, plastic, slot width
.050 to .100 inch.

Overall length inches	Mounting method	Drawing part number
7.00	3 snaps	85067-01
6.875	2 snaps	85067-02
6.375	2 holes	85067-03
5.50	2 snaps	85067-04
4.125	"	85067-05
4.125	"	85067-06
3.500	"	85067-07
2.50	"	85067-08
2.50	"	85067-09

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SECTION 400

EXTRACTORS/EJECTORS

TABLE 400.I Extractor, electrical card.

Material	Slot inch	Drawing part number
Nylon	.070	83023-01*
Nylon	.070	83023-02*
Nylon	.070	83023-03*
Nylon	.070	83023-04*
Nylon	.100	83023-05*
Nylon	.100	83023-06*
Nylon	.100	83023-07*
Nylon	.100	83023-08*
Glass filled nylon	.070	83023-09*
Glass filled nylon	.140	83023-10*
Glass filled nylon	.070	83023-11*
Glass filled nylon	.070	83023-12*
Nylon	.070	83023-13*
Glass filled polycarbonate	.070	83023-14*
Nylon	.070	83023-15*
Nylon	.100	83023-16*
Aluminum	.040	84191-01*
Aluminum	.040	84191-02*
Aluminum	.075	84191-03*
Aluminum	.075	84191-04*
Aluminum	.105	84191-05*
Aluminum	.105	84191-06*
Aluminum	.132	84191-07*
Aluminum	.132	84191-08*

* The complete part number includes a letter indicating color on 83023 and indicates finish of 84191.

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SECTION 500

HEAT SINKS

TO can	Table	Page
TO-3	500.I	500.2
TO-5	500.II	500.5
TO-6	500.III	500.6
TO-7	500.IV	500.6
TO-8	500.V	500.7
TO-9	500.VI	500.7
TO-11	500.VII	500.8
TO-18	500.VIII	500.8
TO-36	500.IX	500.9
TO-38	500.X	500.9
TO-42	500.XI	500.10
TO-53	500.XII	500.10
TO-58	500.XIII	500.10
TO-66	500.XIV	500.11
TO-92	500.XV	500.13
TO-126	500.XVI	500.13
TO-220	500.XVII	500.14
STUD	500.XVIII	500.15
DIP (IC)	500.XIX	500.17
MISC	500.XX	500.17

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TABLE 500.1 Heat sinks, T0-3.

Configuration	Material	Part number M87111/
Wafer	Aluminum	01-1*01
"	"	01-1*02
"	"	01-1*03
"	"	01-1*04
"	"	01-1*05
"	"	01-1*06
"	Beryllium oxide	01-4*15
"	"	01-4*21
"	"	01-4*25
Formed	Aluminum	05-1*011
"	"	05-1*012
"	"	05-1*013
"	"	05-1*014
"	"	05-1*015
"	"	05-1*016
"	"	05-1*017
"	"	05-1*018
"	"	05-1*019
"	"	05-1*020
"	"	05-1*200
"	"	05-1*201
"	"	05-1*202
"	"	05-1*203
"	"	05-1*204
"	"	05-1*205
"	"	05-1*206
"	"	05-1*207
"	"	05-1*208
"	"	05-1*051
"	"	05-1*052
"	"	05-1*053
"	"	05-1*054
"	"	05-1*055
"	"	05-1*056
"	"	05-1*057
"	"	05-1*058
"	"	05-1*059
"	"	05-1*060
"	"	05-1*236
"	"	05-1*237
"	"	05-1*238
"	"	05-1*239
"	"	05-1*240
"	"	05-1*241
"	"	05-1*242
"	"	05-1*243
"	"	05-1*244
"	"	05-1*181
"	"	05-1*182
"	"	05-1*183
"	"	05-1*184
"	"	05-1*185
"	"	05-1*186
"	"	05-1*187
"	"	05-1*188
"	"	05-1*189
"	"	05-1*190
"	"	05-1*353
"	"	05-1*354

* Complete part number includes a letter indicating finish.

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TABLE 500.I Heat sinks, T0-3 - Continued.

Configuration	Material	Part number M87111/
Formed	Aluminum	05-1*355
"	"	05-1*356
"	"	05-1*357
"	"	05-1*358
"	"	05-1*359
"	"	05-1*360
"	"	05-1*361
"	"	05-1*071
"	"	05-1*072
"	"	05-1*073
"	"	05-1*074
"	"	05-1*075
"	"	05-1*076
"	"	05-1*077
"	"	05-1*078
"	"	05-1*079
"	"	05-1*080
"	"	05-1*254
"	"	05-1*255
"	"	05-1*256
"	"	05-1*257
"	"	05-1*258
"	"	05-1*259
"	"	05-1*260
"	"	05-1*261
"	"	05-1*262
"	"	05-1*081
"	"	05-1*082
"	"	05-1*083
"	"	05-1*084
"	"	05-1*085
"	"	05-1*086
"	"	05-1*087
"	"	05-1*088
"	"	05-1*089
"	"	05-1*090
"	"	05-1*263
"	"	05-1*264
"	"	05-1*265
"	"	05-1*266
"	"	05-1*267
"	"	05-1*268
"	"	05-1*269
"	"	05-1*270
"	"	05-1*271
"	"	05-1*111
"	"	05-1*112
"	"	05-1*113
"	"	05-1*114
"	"	05-1*115
"	"	05-1*116
"	"	05-1*117
"	"	05-1*118
"	"	05-1*119
"	"	05-1*120
"	"	05-1*290
"	"	05-1*291
"	"	05-1*292

* Complete part number includes a letter indicating finish.

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TABLE 500.1 Heat sinks, T0-3 - Continued.

Configuration	Material	Part number M87111/
Formed	Aluminum	05-1*293
"	"	05-1*294
"	"	05-1*295
"	"	05-1*296
"	"	05-1*297
"	"	05-1*298
"	"	05-1*171
"	"	05-1*172
"	"	05-1*173
"	"	05-1*174
"	"	05-1*175
"	"	05-1*176
"	"	05-1*177
"	"	05-1*178
"	"	05-1*179
"	"	05-1*180
"	"	05-1*344
"	"	05-1*345
"	"	05-1*346
"	"	05-1*347
"	"	05-1*348
"	"	05-1*349
"	"	05-1*350
"	"	05-1*351
"	"	05-1*352
Extruded	"	06-1*08
"	"	06-1*09
"	"	06-1*10
"	"	06-1*11
"	"	06-1*12
"	"	06-1*13
"	"	06-1*14
"	"	06-1*36
"	"	06-1*37
"	"	06-1*38
"	"	06-1*39
"	"	06-1*40
"	"	06-1*41
"	"	06-1*42

* Complete part number includes a letter indicating finish.

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TABLE 500.II Heat sinks, T0-5.

Configuration	Material	Part number M87111/
Retainer clip	Beryllium copper	02-2*02
"	"	02-2*05
"	"	02-2*16
"	"	02-2*17
"	Beryllium copper with beryllium oxide	02-3*08
"	"	02-3*12
"	"	02-3*13
"	"	02-3*15
Press-on	Aluminum	03-1*16
"	"	03-1*20
"	"	03-1*27
"	"	03-1*32
"	"	03-1*36
"	"	03-1*38
"	"	03-1*40
"	"	03-1*41
"	"	03-1*42
"	"	03-1*43
"	"	03-1*44
"	"	03-1*45
"	"	03-1*46
"	Beryllium copper	03-2*03
"	"	03-2*04
"	"	03-2*07
"	"	03-2*08
"	"	03-2*11
"	"	03-2*12
Encapsulating	Aluminum	04-1*01
"	"	04-1*02
"	"	04-1*03
"	"	04-1*04
"	"	04-1*05
"	"	04-1*06
Dual link	Beryllium copper	08-2*01

* Complete part number includes a letter indicating finish.

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TABLE 500.III Heat sinks, T0-6.

Configuration	Material	Part number M87111/
Formed	Aluminum	05-1*001
"	"	05-1*002
"	"	05-1*003
"	"	05-1*004
"	"	05-1*005
"	"	05-1*006
"	"	05-1*007
"	"	05-1*008
"	"	05-1*009
"	"	05-1*010
"	"	05-1*191
"	"	05-1*192
"	"	05-1*193
"	"	05-1*194
"	"	05-1*195
"	"	05-1*196
"	"	05-1*197
"	"	05-1*198
"	"	05-1*199
Extruded	"	06-1*01
"	"	06-1*02
"	"	06-1*03
"	"	06-1*04
"	"	06-1*05
"	"	06-1*06
"	"	06-1*07

TABLE 500.IV Heat sinks, T0-7.

Configuration	Material	Part number M87111/
Press-on	Aluminum	03-1*28

* Complete part number includes a letter indicating finish.

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TABLE 500.V Heat sinks, T0-8.

Configuration	Material	Part number M87111/
Wafer	Beryllium oxide	01-4*18
Retainer clip	Beryllium copper	02-2*03
"	"	02-2*06
"	Beryllium copper with insulator	02-3*09
"	"	02-3*10
Press-on	Aluminum	03-1*47
"	Beryllium copper	03-2*09
"	"	03-2*13
"	"	03-2*48
Formed	Aluminum	05-1*061
"	"	05-1*062
"	"	05-1*063
"	"	05-1*064
"	"	05-1*065
"	"	05-1*066
"	"	05-1*067
"	"	05-1*068
"	"	05-1*069
"	"	05-1*070
"	"	05-1*245
"	"	05-1*246
"	"	05-1*247
"	"	05-1*248
"	"	05-1*249
"	"	05-1*250
"	"	05-1*251
"	"	05-1*252
"	"	05-1*253

TABLE 500.VI Heat sinks, T0-9.

Configuration	Material	Part number M87111/
Press-on	Aluminum	03-1*14
"	"	03-1*15
"	"	03-1*21
"	"	03-1*34

* Complete part number includes a letter indicating finish.

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TABLE 500.VII Heat sinks, T0-11.

Configuration	Material	Part number M87111/
Press-on	Aluminum	03-1*27
"	"	03-1*31
"	"	03-1*32
"	"	03-1*33
"	"	03-1*36
"	"	03-1*38

TABLE 500.VIII Heat sinks, T0-18.

Configuration	Material	Part number M87111/
Wafer	Beryllium oxide	01-4*16
Retainer clip	Beryllium copper	02-2*01
"	"	02-2*04
"	Beryllium copper with insulator	02-3*07
"	"	02-3*11
"	"	02-3*14
Press-on	Aluminum	03-1*19
"	"	03-1*26
"	"	03-1*39
"	"	03-1*44
"	"	03-1*45
"	"	03-1*46
"	Beryllium copper	03-2*01
"	"	03-2*02
"	"	03-2*05
"	"	03-2*06
"	"	05-2*10
Dual link	"	08-2*02
Dual link	"	08-2*03

* Complete part number includes a letter indicating finish.

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TABLE 500.IX Heat sinks, T0-36.

Configuration	Material	Part number M87111/
Wafer	Beryllium oxide	01-4*19
Formed	Aluminum	05-1*001
"	"	05-1*002
"	"	05-1*003
"	"	05-1*004
"	"	05-1*005
"	"	05-1*006
"	"	05-1*007
"	"	05-1*008
"	"	05-1*009
"	"	05-1*010
"	"	05-1*191
"	"	05-1*192
"	"	05-1*193
"	"	05-1*194
"	"	05-1*195
"	"	05-1*196
"	"	05-1*197
"	"	05-1*198
"	"	05-1*199
Extruded	"	06-1*01
"	"	06-1*02
"	"	06-1*03
"	"	06-1*04
"	"	06-1*05
"	"	06-1*06
"	"	06-1*07

TABLE 500.X Heat sinks, T0-38.

Configuration	Material	Part number M87111/
Press-on	Aluminum	03-1*47
Press-on	Beryllium copper	03-2*48

* Completed part number includes a letter indicating finish.

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TABLE 500.XI Heat sinks, T0-42.

Configuration	Material	Part number M87111/
Press-on	Aluminum	03-1*24
Press-on	Aluminum	03-1*25

TABLE 500.XII Heat sinks, T0-53.

Configuration	Material	Part number M87111/
Wafer	Beryllium oxide	01-4*22
Wafer	Beryllium oxide	01-4*23

TABLE 500.XIII Heat sinks, T0-58.

Configuration	Material	Part number M87111/
Press-on	Aluminum	03-1*23

* Complete part number includes a letter indicating finish.

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TABLE 500.XIV Heat sinks, TO-66.

Configuration	Material	Part number M87111/
Wafer	Aluminum	01-1*07
"	"	01-1*08
"	"	01-1*09
"	"	01-1*10
Formed	Beryllium oxide	01-4*24
"	Aluminum	05-1*011
"	"	05-1*012
"	"	05-1*013
"	"	05-1*014
"	"	05-1*015
"	"	05-1*016
"	"	05-1*017
"	"	05-1*018
"	"	05-1*019
"	"	05-1*020
"	"	05-1*200
"	"	05-1*201
"	"	05-1*202
"	"	05-1*203
"	"	05-1*204
"	"	05-1*205
"	"	05-1*206
"	"	05-1*207
"	"	05-1*208
"	"	05-1*091
"	"	05-1*092
"	"	05-1*093
"	"	05-1*094
"	"	05-1*095
"	"	05-1*096
"	"	05-1*097
"	"	05-1*098
"	"	05-1*099
"	"	05-1*100
"	"	05-1*272
"	"	05-1*273
"	"	05-1*274
"	"	05-1*275
"	"	05-1*276
"	"	05-1*277
"	"	05-1*278
"	"	05-1*279
"	"	05-1*280
"	"	05-1*121
"	"	05-1*122
"	"	05-1*123
"	"	05-1*124
"	"	05-1*125
"	"	05-1*126
"	"	05-1*127
"	"	05-1*128
"	"	05-1*129
"	"	05-1*130
"	"	05-1*299
"	"	05-1*300
"	"	05-1*301
"	"	05-1*302
"	"	05-1*303
"	"	05-1*304

* Complete part number includes a letter indicating finish.

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TABLE 500.XIV Heat sinks, T0-66 - Continued.

Configuration	Material	Part number M87111/
Formed	Aluminum	05-1*305
"	"	05-1*306
"	"	05-1*307
"	"	05-1*141
"	"	05-1*142
"	"	05-1*143
"	"	05-1*144
"	"	05-1*145
"	"	05-1*146
"	"	05-1*147
"	"	05-1*148
"	"	05-1*149
"	"	05-1*150
"	"	05-1*317
"	"	05-1*318
"	"	05-1*319
"	"	05-1*320
"	"	05-1*321
"	"	05-1*322
"	"	05-1*323
"	"	05-1*324
"	"	05-1*325
"	"	05-1*151
"	"	05-1*152
"	"	05-1*153
"	"	05-1*154
"	"	05-1*155
"	"	05-1*156
"	"	05-1*157
"	"	05-1*158
"	"	05-1*159
"	"	05-1*160
"	"	05-1*326
"	"	05-1*327
"	"	05-1*328
"	"	05-1*329
"	"	05-1*330
"	"	05-1*331
"	"	05-1*332
"	"	05-1*333
"	"	05-1*334
"	"	05-1*161
"	"	05-1*162
"	"	05-1*163
"	"	05-1*164
"	"	05-1*165
"	"	05-1*166
"	"	05-1*167
"	"	05-1*168
"	"	05-1*169
"	"	05-1*170
"	"	05-1*335
"	"	05-1*336
"	"	05-1*337
"	"	05-1*338
"	"	05-1*339
"	"	05-1*340
"	"	05-1*341
"	"	05-1*342

* Complete part number includes a letter indicating finish.

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TABLE 500.XIV Heat sinks, T0-66 - Continued.

Configuration	Material	Part number M87111/
Formed	Aluminum	05-1*343
Extruded	"	06-1*08
"	"	06-1*09
"	"	06-1*10
"	"	06-1*11
"	"	06-1*12
"	"	06-1*13
"	"	05-1*14

TABLE 500.XV Heat sinks, T0-92.

Configuration	Material	Part number M87111/
Press-on	Aluminum	03-1*44
"	"	03-1*45
"	"	03-1*46

TABLE 500.XVI Heat sinks, T0-126.

Configuration	Material	Part number M87111/
Formed	Aluminum	05-1*011
"	"	05-1*012
"	"	05-1*013
"	"	05-1*014
"	"	05-1*015
"	"	05-1*016
"	"	05-1*017
"	"	05-1*018
"	"	05-1*019
"	"	05-1*020
"	"	05-1*200
"	"	05-1*201
"	"	05-1*202
"	"	05-1*203
"	"	05-1*204
"	"	05-1*205
"	"	05-1*206
"	"	05-1*207
"	"	05-1*208
Extruded	"	06-1*08
"	"	06-1*09
"	"	06-1*10
"	"	06-1*11
"	"	06-1*12
"	"	06-1*13
"	"	06-1*14

* Complete part number includes a letter indicating finish.

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TABLE 500.XVII Heat sinks, T0-220.

Configuration	Material	Part number M87111/
Formed	Aluminum	05-1*011
"	"	05-1*012
"	"	05-1*013
"	"	05-1*014
"	"	05-1*015
"	"	05-1*016
"	"	05-1*017
"	"	05-1*018
"	"	05-1*019
"	"	05-1*020
"	"	05-1*200
"	"	05-1*201
"	"	05-1*202
"	"	05-1*203
"	"	05-1*204
"	"	05-1*205
"	"	05-1*206
"	"	05-1*207
"	"	05-1*208
"	"	05-1*101
"	"	05-1*102
"	"	05-1*103
"	"	05-1*104
"	"	05-1*105
"	"	05-1*106
"	"	05-1*107
"	"	05-1*108
"	"	05-1*109
"	"	05-1*110
"	"	05-1*281
"	"	05-1*282
"	"	05-1*283
"	"	05-1*284
"	"	05-1*285
"	"	05-1*286
"	"	05-1*287
"	"	05-1*288
"	"	05-1*289
"	"	05-1*131
"	"	05-1*132
"	"	05-1*133
"	"	05-1*134
"	"	05-1*135
"	"	05-1*136
"	"	05-1*137
"	"	05-1*138
"	"	05-1*139
"	"	05-1*140
"	"	05-1*308
"	"	05-1*309
"	"	05-1*310
"	"	05-1*311
"	"	05-1*312
"	"	05-1*313
"	"	05-1*314
"	"	05-1*315
"	"	05-1*316
"	"	06-1*08
"	"	06-1*09

* Complete part number includes a letter indicating finish.

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TABLE 500.XVII Heat sinks, T0-220 - Continued.

Configuration	Material	Part number M871111/
Formed	Aluminum	06-1*10
"	"	06-1*11
"	"	06-1*12
"	"	06-1*13
"	"	06-1*14

TABLE 500.XVIII Heat sinks, STUD.

Configuration	Material	Part number M871111/
Wafer	Aluminum	01-1*11
"	"	01-1*12
"	"	01-1*13
"	"	01-1*14
"	Beryllium oxide	01-4*26
"	"	01-4*27
"	"	01-4*28
Formed	Aluminum	05-1*021
"	"	05-1*022
"	"	05-1*023
"	"	05-1*024
"	"	05-1*025
"	"	05-1*026
"	"	05-1*027
"	"	05-1*028
"	"	05-1*029
"	"	05-1*030
"	"	05-1*209
"	"	05-1*210
"	"	05-1*211
"	"	05-1*212
"	"	05-1*213
"	"	05-1*214
"	"	05-1*215
"	"	05-1*216
"	"	05-1*217
"	"	05-1*031
"	"	05-1*032
"	"	05-1*033
"	"	05-1*034
"	"	05-1*035
"	"	05-1*036
"	"	05-1*037
"	"	05-1*038
"	"	05-1*039
"	"	05-1*040
"	"	05-1*218
"	"	05-1*219
"	"	05-1*220
"	"	05-1*221
"	"	05-1*222
"	"	05-1*223
"	"	05-1*224

* Complete part number includes a letter indicating finish.

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TABLE 500.XVIII Heat sinks, STUD - Continued.

Configuration	Material	Part number M871111/
Formed	Aluminum	05-1*225
"	"	05-1*226
"	"	05-1*041
"	"	05-1*042
"	"	05-1*043
"	"	05-1*044
"	"	05-1*045
"	"	05-1*046
"	"	05-1*047
"	"	05-1*048
"	"	05-1*049
"	"	05-1*050
"	"	05-1*227
"	"	05-1*228
"	"	05-1*229
"	"	05-1*230
"	"	05-1*231
"	"	05-1*232
"	"	05-1*233
"	"	05-1*234
"	"	05-1*235
Extruded	"	06-1*15
"	"	06-1*16
"	"	06-1*17
"	"	06-1*18
"	"	06-1*19
"	"	06-1*20
"	"	06-1*21
"	"	06-1*22
"	"	05-1*23
"	"	06-1*24
"	"	06-1*25
"	"	06-1*26
"	"	06-1*27
"	"	06-1*28
"	"	06-1*29
"	"	06-1*30
"	"	06-1*31
"	"	06-1*32
"	"	05-1*33
"	"	05-1*34
"	"	05-1*35

* Complete part number includes a letter indicating finish.

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TABLE 500.XIX Heat sinks, DIP.

Configuration	Material	Part number M87111/
DIP	Aluminum	07-1*01
"	"	07-1*02
"	"	07-1*03
"	"	07-1*04
"	"	07-1*05
"	"	07-1*06
"	"	07-1*07
"	"	07-1*08
"	"	07-1*09
"	"	07-1*10
"	"	07-1*11
"	"	07-1*12
"	"	07-1*13
"	"	07-1*14
"	"	07-1*15
"	"	07-1*16
"	"	07-1*17
"	"	07-1*18
"	"	07-1*19
"	"	07-1*20
"	"	07-1*21
"	"	07-1*22

TABLE 500.XX Heat sinks, MISC.

Configuration	Material	Part number M87111/
Wafer	Aluminum	01-1*34
"	"	01-4*20
"	"	01-4*31
"	"	01-4*32
Press-on	"	03-1*17
"	"	03-1*22
"	"	03-1*29
"	"	03-1*30
"	"	03-1*37
Formed	"	05-1*362
"	"	05-1*363
"	"	05-1*364
"	"	05-1*365
"	"	05-1*366
"	"	05-1*367
"	"	05-1*368
"	"	05-1*369
"	"	05-1*370

* Complete part number includes a letter indicating finish.

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SECTION 600
MOUNTING PADS

Table	Title	Page
600.I	1 hole circular	600.2
600.II	2 hole circular	600.2
600.III	3 hole circular	600.2
600.IV	4 hole circular	600.3
600.V	5 hole circular	600.3
600.VI	6 hole circular	600.4
600.VII	8 hole circular	600.4
600.VIII	10 hole circular	600.5
600.IX	11 hole circular	600.5
600.X	12 hole circular	600.5
600.XI	2 hole miscellaneous	600.5
600.XII	4 hole miscellaneous	600.6
600.XIII	8 hole miscellaneous	600.6
600.XIV	10 hole miscellaneous	600.6
600.XV	11 hole miscellaneous	600.6
600.XVI	4 hole square	600.6
600.XVII	8 hole square	600.7
600.XVIII	10 hole square	600.7
600.XIX	14 hole square	600.7
600.XX	16 hole square	600.7

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TABLE 600.I 1 hole circular mounting pads.

Pad diameter inches	Diameter hole through inches	M38527/
.130	.045	01-045D
.365	.250	02-009D
.365	.250	02-041D

TABLE 600.II 2 hole circular mounting pads.

Pad diameter inches	Diameter hole through inches	Diameter pin center inches	M38527/
.305	.033	.200	10-006D

TABLE 600.III 3 hole circular mounting pads.

Pad diameter inches	Diameter hole through inches	Diameter pin center inches	M38527/
.281	.045	.200	02-036D
.280	N/A	.200	10-002D
.281	.045	.200	02-015D
.300	.030	.100	01-048D
.300	.025	N/A	03-006D
.343	.062	.200	03-007D
.343	.045	"	02-017D
.344	.045	"	02-016D
.344	.045	"	02-025D
.350	.045	"	02-019D
.350	.045	"	02-014D
.365	.028	"	02-044D
.375	.031	"	02-037D
.375	.029	.100	01-041D
.600	.044	.282	07-003D

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TABLE 600.IV 4 hole circular mounting pads.

Pad diameter inches	Diameter hole through inches	Diameter pin center inches	M38527/
.190	.030	.100	01-033D
.190	.030	"	01-044D
.200	.027	"	01-030D
.200	.025	"	01-031D
.200	.025	"	01-035D
.200	.025	"	01-037D
.200	.036	"	01-040D
.203	.025	"	01-032D
.225	.025	.150	03-016D
.225	.026	.150	03-002D
.225	.020	.100	01-039D
.225	.028	"	01-042D
.225	.028	"	01-043D
.225	.028	"	01-046D
.228	.040	.150	03-009D
.230	.025	.150	03-014D
.230	.025	.100	07-002D
.250	.028	"	01-034D
.250	.028	"	01-036D
.250	.028	"	01-038D
.255	.033	.200	03-001D
.255	.035	N/A	03-013D
.275	.025	.200	03-008D
.305	.033	"	03-003D
.305	.033	"	03-010D
.305	.033	"	03-012D
.340	.180	.220	03-017D
.340	.010	.200	03-010D
.344	.045	"	02-021D
.350	.036	"	02-018D
.350	.020	"	02-023D
.350	.026	"	02-022D
.350	.028	"	02-045D
.350	.033	"	03-012D
.350	.030	.210	02-013D
.350	.020	.192	10-001D
.355	.045	.200	02-020D
.365	.046	"	02-039D
.400	.010	"	02-011D
.500	.033	"	10-004D

TABLE 600.V 5 hole circular mounting pads.

Pad diameter inches	Diameter hole through inches	Diameter pin center inches	M38527/
.250	.025	.200	03-015D
.285	.028	"	02-040D
.343	.028	"	02-024D
.343	.037	"	02-027D
.350	.028	"	10-005D

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TABLE 600.VI 6 hole circular mounting pads.

Pad diameter inches	Diameter hole through inches	Diameter pin center inches	M38527/
.305	.033	.200	03-012D
.340	.028	.200	02-026D
.365	.032	N/A	05-010D
.370	.025	.200	02-028D
.370	.025	.200	02-046D
.375	.035	.300	04-010D
.500	.030	.390	04-019D

TABLE 600.VII 8 hole circular mounting pads.

Pad diameter inches	Diameter hole through inches	Diameter pin center inches	M38527/
.230	.030	N/A	03-005D
.250	.030	N/A	03-004D
.290	.028	.200	07-001D
.340	.025	N/A	01-047D
.355	.045	.200	02-003D
.355	.045	.200	02-005D
.365	.028	.200	02-043D
.365	.025	N/A	05-002D
.365	.012	.200	02-004D
.375	.040	.300	04-011D
.375	.036	.200	02-031D
.375	.036	.200	02-032D
.375	.036	.230	02-033D
.375	.036	.200	02-001D
.375	.036	.200	02-002D
.380	.025	.260	04-006D
.380	.025	.280	04-014D
.430	.025	.350	04-003D
.500	.025	.400	04-001D
.500	.032	.400	04-002D
.500	.030	.400	04-012D
.500	.025	N/A	05-011D
.500	.030	N/A	10-003D

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TABLE 600.VIII 10 hole circular mounting pads.

Pad diameter inches	Diameter hole through inches	Diameter pin center inches	M38527/
.350	.025	.230	02-034D
.375	.036	.200	02-030D
.375	.035	.230	02-006D
.375	.028	.200	02-007D
.375	.036	.230	02-008D
.380	.025	.200	02-042D
.380	.025	.280	04-009D
.420	.030	.281	06-016D
.420	.025	.330	04-015D
.446	.036	.230	02-029D
.450	.025	N/A	05-009D
.500	.025	.400	04-004D
.500	.025	.400	04-005D
.500	.022	.400	04-007D
.500	.040	.400	04-013D
.500	.040	.400	04-017D

TABLE 600.IX 11 hole circular mounting pads.

Pad diameter inches	Diameter hole through inches	Diameter pin center inches	M38527/
.500	.022	.400	04-008D
.500	.025	.350	04-016D

TABLE 600.X 12 hole circular mounting pads.

Pad diameter inches	Diameter hole through inches	Diameter pin center inches	M38527/
.375	.036	.230	02-035D
.545	.022	N/A	07-004D
.580	.025	N/A	07-005D
.600	.040	.500	04-018D

TABLE 600.XI 2 hole miscellaneous mounting pads.

Gross size inches	Diameter hole through inches	M38527/
.090 x .180	.045	06-008D
.090 x .290	.045	06-010D
.125 x .270	.045	06-009D
.250 x .375	.062	07-007D
1.585 x .375	.140	07-006D

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TABLE 600.XII 4 hole miscellaneous mounting pads.

Gross size inches	Diameter hole through inches	M38527/
.220 x .220	.028	06-011D
.270 x .270	.015	06-002D
.3 x .3	.024	02-038D
.3 x .3	.030	06-015D
.33 x .33	.025	06-014D
.34 diameter	.125	06-013D
.35 diameter	.030	06-012D

TABLE 600.XIII 8 hole miscellaneous mounting pads.

Gross size inches	Diameter hole through inches	M38527/
.34 diameter	.125	06-013D
.35 diameter	.030	06-012D

TABLE 600.XIV 10 hole miscellaneous mounting pads.

Gross size inches	Diameter hole through inches	M38527/
.365 x .390	.022	02-012D
.370 x .370	.025	05-001D
.370 x .370	.025	05-003D

TABLE 600.XV 11 hole miscellaneous mounting pads.

Gross size inches	Diameter hole through inches	M38527/
.370 x .370	.025	05-004D

TABLE 600.XVI 4 hole square mounting pads.

Gross size inches	Diameter hole through inches	M38527/
.450 x .450	.040	05-006D

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TABLE 600.XVII 8 hole square mounting pads.

Gross size inches	Diameter hole through inches	M38527/
.300 x .600	.035	06-003D
.390 x .390	.024	05-012D
.400 x .800	.035	06-001D

TABLE 600.XVIII 10 hole square mounting pads.

Gross size inches	Diameter hole through inches	M38527/
.385 x .490	.025	05-005D
.395 x .395	.025	05-007D

TABLE 600.XIX 14 hole square mounting pads.

Gross size inches	Diameter hole through inches	M38527/
.388 x .750	.035	06-004D
.388 x .750	.035	06-005D
.388 x .750	.035	06-006D

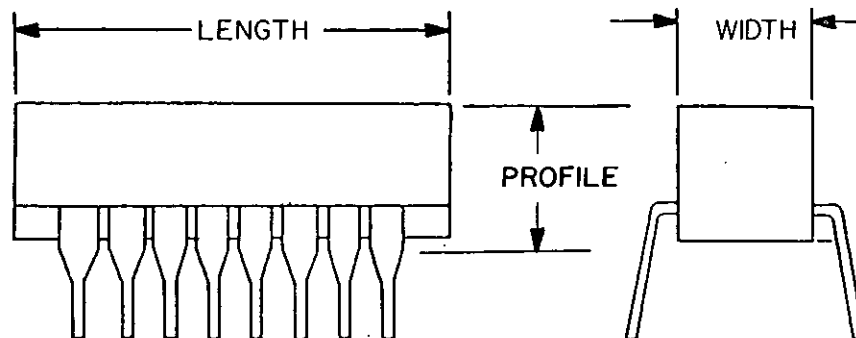
TABLE 600.XX 16 hole square mounting pads.

Gross size inches	Diameter hole through inches	M38527/
.450 x .850	.035	06-007D

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SECTION 700
DELAY LINES, ACTIVE

Number of taps	Package XX DIP	Package profile inches	Length inches	Width inches	Drawing number	Table	Page
1	14	.360	.820	.410	84087	700.I	700.2
1 (2 per package)	14	.186	.810	.510	85009	700.II	700.2
1 (programmable)	16	.360	.820	.410	85019	700.III	700.3
1 (3 per package)	14	.260	.800	.400	85151	700.IV	700.4
2	14	.360	.820	.410	84087	700.V	700.4
5	14	.360	.820	.410	84087	700.VI	700.5
5	14	.186	.810	.510	85008	700.VII	700.5
5	14	.260	.800	.400	85013	700.VIII	700.6
10	14	.320	.800	.450	85014	700.IX	700.6

FIGURE 700.1. Delay lines, active.

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TABLE 700.I 1 tap, 14 PIN DIP .360 inch profile.

Total delay (ns)	Part number
10	84087-01
20	84087-02
30	84087-03
40	84087-04
50	84087-05
60	84087-06
80	84087-07
100	84087-08
150	84087-09
200	84087-10
300	84087-11
400	84087-12
500	84087-13

TABLE 700.II 1 tap, 14 PIN DIP .186 inch profile.

Total delay (ns)	Part number
5 (each)	85009-01
6	85009-02
7	85009-03
8	85009-04
9	85009-05
10	85009-06
11	85009-07
12	85009-08
13	85009-09
14	85009-10
15	85009-11
16	85009-12
17	85009-13
18	85009-14
19	85009-15
20	85009-16
21	85009-17
22	85009-18
23	85009-19
24	85009-20
25	85009-21
30	85009-22
35	85009-23
40	85009-24
45	85009-25
50	85009-26
55	85009-27
60	85009-28
65	85009-29
70	85009-30
75	85009-31

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TABLE 700.II 1 tap, 14 PIN DIP .186 inch profile - Continued.

Total delay (ns)	Part number
80	85009-32
85	85009-33
90	85009-34
95	85009-35
100	85009-36
125	85009-37
150	85009-38
175	85009-39
200	85009-40
225	85009-41
250	85009-42

TABLE 700.III 1 tap, 16 PIN DIP .360 inch profile.

Delay per step (ns)	Total delay (ns)	Part number
.5	10.5	85019-01
1	14	85019-02
1	10	85078-01
2	21	85019-03
2	17	85078-02
3	28	85019-04
3	24	85078-03
4	31	85078-04
5	42	85019-05
5	38	85078-05
6	45	85078-06
7	52	85078-07
8	59	85078-08
9	66	85078-09
10	77	85019-06
10	73	85078-10
15	112	85019-07
15	108	85078-11
20	147	85019-08
20	143	85078-12
25	178	85078-13
30	213	85078-14
35	248	85078-15
40	287	85019-09
40	283	85078-16
45	318	85078-17
50	357	85019-10
50	353	85078-18

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TABLE 700.IV 1 tap, 14 PIN DIP .260 inch
profile (3 per package).

Total delay (ns)	Part number
5 (each)	85151-01
10 "	85151-02
15 "	85151-03
20 "	85151-04
25 "	85151-05
30 "	85151-06
35 "	85151-07
40 "	85151-08
45 "	85151-09
50 "	85151-10
75 "	85151-11
100 "	85151-12
125 "	85151-13
150 "	85151-14
175 "	85151-15
200 "	85151-16
225 "	85151-17
250 "	85151-18

TABLE 700.V 2 taps, 14 PIN DIP .360 inch profile.

Total delay (ns)	Part number
20	84087-14
40	84087-15
50	84087-16
60	84087-17
80	84087-18
100	84087-19
150	84087-20
200	84087-21
300	84087-22
400	84087-23
500	84087-24

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TABLE 700.VI 5 taps, 14 PIN DIP .360 inch profile.

Total delay (ns)	Part number
25	84087-26
50	84087-27
75	84087-28
100	84087-29
125	84087-30
150	84087-31
200	84087-32
250	84087-33
300	84087-34
400	84087-35
500	84087-36

TABLE 700.VII 5 taps, 14 PIN DIP .186 inch profile.

Total delay (ns)	Part number
25	85008-01
30	85008-02
35	85008-03
40	85008-04
45	85008-05
50	85008-06
75	85008-07
100	85008-08
125	85008-09
150	85008-10
175	85008-11
200	85008-12
225	85008-13
250	85008-14
300	85008-15
350	85008-16
400	85008-17
450	85008-18
500	85008-19

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TABLE 700.VIII 5 taps, 14 PIN DIP .260 inch profile.

Total delay (ns)	Part number
25	85013-01
30	85013-02
35	85013-03
40	85013-04
45	85013-05
50	85013-06
75	85013-07
100	85013-08
125	85013-09
150	85013-10
175	85013-11
200	85013-12
225	85013-13
250	85013-14
300	85013-15
350	85013-16
400	85013-17
450	85013-18
500	85013-19

TABLE 700.IX 10 taps, 14 PIN DIP .320 inch profile.

Total delay (ns)	Part number
10	85014-01
20	85014-02
25	85014-03
50	85014-04
100	85014-05
150	85014-06
200	85014-07
250	85014-08
300	85014-09
400	85014-10
500	85014-11

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6. SUPPLEMENTAL INFORMATION

6.1 Recycled, virgin, and reclaimed materials. The use of reclaimed materials shall be encouraged to the maximum extent possible.

6.2 Subject term (key word) listing.

Card holders

Delay lines

EMI gaskets

Extractors

Heat sinks

Mounting pads

6.3 Part numbers. Any part number where the first character is an "M" is a military specification part number. All other part numbers are drawing part numbers.

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Custodians:

Army - ER
Navy - EC
Air Force - 85

Review activities:

Army - ME, MI, SL
Air Force 11, 17, 99
DLA - ES

Preparing activity:
Air Force - 85

Agent:
DLA - ES

(Project 5999-0177)

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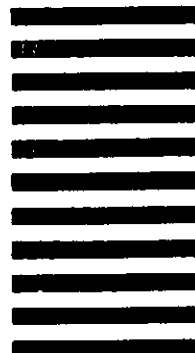
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1. DOCUMENT NUMBER MIL-STD-1837		2. DOCUMENT TITLE Military Standard, Miscellaneous Electrical and Electronic Components, Selection and use of.	
3a. NAME OF SUBMITTING ORGANIZATION		4. TYPE OF ORGANIZATION (Mark one)	
b. ADDRESS (Street, City, State, ZIP Code)		<input type="checkbox"/> VENDOR	
		<input type="checkbox"/> USER	
		<input type="checkbox"/> MANUFACTURER	
		<input type="checkbox"/> OTHER (Specify): _____	
5. PROBLEM AREAS			
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