

INCH-POUND

MIL-DTL-83505/7A
12 September 2023
SUPERSEDING
MIL-S-83505/7
12 September 1994

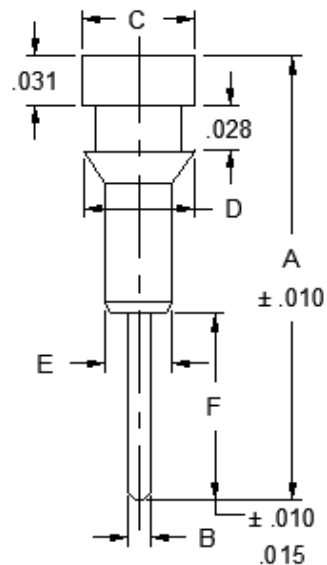
DETAIL SPECIFICATION SHEET

SOCKETS (LEAD, ELECTRONIC COMPONENTS) (TYPE II, PRINTED CIRCUIT) LOW INSERTION FORCE (LIF)

Inactive for new design after 27 July 2023.

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and the MIL-DTL-83505.



Inches	mm
.010	0.25
.015	0.38
.028	0.71
.031	0.79

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified the tolerance for three place decimals is $\pm .005$ inch (0.13 mm).
4. Part is to be free of burrs, except as noted.
5. Dimensions apply after plating.
6. For retention design requirements see MIL-DTL-83505, figure 2.

FIGURE 1. Socket, lead, (type II) printed circuit.

AMSC N/A

DISTRIBUTION STATEMENT A. Approved for public release. Distribution is unlimited.

FSC 5935



MIL-DTL-83505/7A

Table I. Interface dimensions and finish ^{1/}

Dash number	Recommended Mounting hole die ± .001	Test gauge "B" length Inch ^{2/}	Mating force (max) (oz/gram)	Sleeve plating
- 001	.055	.120	2.00/56.7	Gold
- 002	(1.40)	(3.05)		Tin/lead
- 003	.076	.140	2.00/56.7	Gold
- 004	(1.93)	(3.56)		Tin/lead

^{1/} Metric equivalents are in parentheses.

^{2/} See mating and unmating test in accordance with MIL-DTL-83505.

Table II Dash numbers and dimensions ^{1/}

Dash number	Accepts pin		A inch	B Dia. inch	C Dia. inch	D Dia. inch	E Dia. inch	F inch
	Length inch	Dia. inch						
- 001	.143 (3.63)	.021 (0.53)	.290 (7.37)	.020 (0.51)	.072 (1.83)	.052 (1.32)	.053 (1.35)	.125 (3.18)
- 002	.125 (3.18)	.016 (0.41)						
- 003	.145 (3.68)	.030 (0.76)	.300 (7.62)	.020 (0.51)	.085 (2.16)	.052 (1.32)	.073 (1.85)	.125 (3.18)
- 004	.140 (3.56)	.020 (0.51)						

^{1/} Metric equivalents are in parentheses.

REQUIREMENTS:

Dimensions and configurations: See figure and 1, table I , and table II.

Terminal: Type II (printed circuit)

Mounting: Use .046 inch (1.17mm) minimum thickness mounting board.

Test mounting:

Use glass epoxy board, type G10 material for mounting sockets.

Qualification: Not applicable.

Group First Article Test. Require all tests of MIL-DTL-83505.

Part or Identifying Number (PIN): The PIN shall consist of the basic number of this specification sheet and the dash number from table II.

M83505/7 -001

└──────────┬──────────┘

└──────────┘ Dash number from table II

└──────────┘ Specification sheet number

Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

CONCLUDING MATERIAL

Custodians:
Army - CR
Navy - EC
Air Force - 85
DLA - CC

Preparing activity:
DLA - CC

(Project: 5935-2023-076)

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 <https://assist.dla.mil>.