

INCH-POUND

MIL-F-15733G
AMENDMENT 4
31 December 1993
SUPERSEDING
AMENDMENT 3
19 March 1993

MILITARY SPECIFICATION

FILTERS AND CAPACITORS, RADIO FREQUENCY INTERFERENCE
GENERAL SPECIFICATION FOR

This amendment forms a part of Military Specification MIL-F-15733G, dated 6 September 1984, and is approved for use by all Departments and Agencies of the Department of Defense.

PAGE 3

- * 2.1, delete references to federal specifications "QQ-C-533" and "QQ-S-781". Delete reference to military standard "MIL-STD-794" and substitute reference to military standard "MIL-STD-2073-1, DOD Materiel Procedures for Development and Application of Packaging Requirements (Part 1 of 2 Parts)". Delete "MIL-STD-105 - Sampling Procedures and Tables for Inspection by Attributes." in its entirety.

PAGE 4

2.2, delete and substitute:

" 2.2 Non-Government publications. The following documents 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 B 16 - Standard Specification for Free-Cutting Brass Rod, Bar and Shapes for Use in Screw Machines. (DoD adopted)
- ASTM B 36 - Standard Specification for Brass Plate, Sheet, Strip, and Rolled Bar. (DoD adopted)
- ASTM B 194 - Standard Specification for Copper-Beryllium Alloy Plate, Sheet, Strip, and Rolled Bar. (DoD adopted)
- ASTM D 92 - Flash and Fire Points by Cleveland Open Cup. (DoD adopted)
- ASTM D 3953 - Standard Specification for Strapping, Flat Steel and Seals. (DoD adopted)

(Application for copies should be addressed to the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103-1137.)

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

3.3.1, add the following sentence:

"Effective 8 August 1988, the use of wax is prohibited in those filters qualified and supplied to the MIL-F-15733 specification sheets."

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* After paragraph 3.4.2, add the following:

"3.4.2.1 Tin-plating. When used, tin plating shall be in accordance with MIL-T-10727 or electro-tin fused, except that the minimum lead content shall be 3 percent. (NOTE: Use of pure tin plating is prohibited as a final finish and as an undercoat effective 6 months from the date of this specification (see 6.5))."

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* 3.12, delete title and substitute: "DC voltage drop (when specified)."

PAGE 11

4.4.4, delete "6 month" wherever it appears and substitute "12-months" (4 places).

* 4.5.1.2.1, delete in its entirety and substitute:

"4.5.1.2.1 Sampling plan. A sample of parts shall be randomly selected in accordance with table XA. If one or more defects are found, the lot shall be 100 percent rescreened for those quality characteristics found defective in the sample and defects removed. After rescreening and removal of defects, a new sample of parts shall be randomly selected in accordance with table XA. If one or more defects are found in the second sample, the lot shall be rejected and shall not be supplied to this specification."

* 4.5.1.2.2, delete in its entirety.

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* 4.5.1.3.1, delete in its entirety and substitute:

"4.5.1.3.1 Sampling plan. A sample of parts shall be randomly selected in accordance with table XA. If one or more defects are found, the lot shall be 100 percent rescreened for those quality characteristics found defective in the sample and defects removed. After rescreening and removal of defects, a new sample of parts shall be randomly selected in accordance with table XA. If one or more defects are found in the second sample, the lot shall be rejected and shall not be supplied to this specification."

* TABLE X, delete in its entirety and substitute:

"TABLE X. Group A inspection."

Inspection	Requirement paragraph	Test paragraph	Sampling procedure
Visual and mechanical inspection: 1/ --	---	4.6.1	See Table XA
Material -----	3.3 and 3.3.1		
Body dimensions -----	3.4		
Design and construction ----- (other than body dimensions)	3.4 to 3.5.3.3 incl.		
Marking -----	3.26		
Workmanship -----	3.27		
Seal -----	3.6	4.6.2	
Capacitance to ground ----- (when applicable)	3.7	4.6.3	
Dielectric withstanding voltage -----	3.9	4.6.5	
Insulation resistance (terminal to ground) -----	3.11	4.6.7	
DC voltage drop (when specified)-----	3.12	4.6.8	
Insertion loss (check test) -----	3.13	4.6.9	

1/ Visual and mechanical examination may be performed before or after the units are sealed, whichever is applicable.

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* After TABLE X, add the following table:

"TABLE XA. C=0 sampling plan.

Lot size	Sample size	
	Group A	Group B
2 to 3	100 percent	100 percent
4 to 13	100 percent	3
14 to 25	13	3
26 to 50	13	5
51 to 90	13	6
91 to 150	13	7
151 to 280	20	10
281 to 500	29	11
501 to 1,200	34	15
1,201 to 3,200	42	18
3,201 to 10,000	50	22

* 4.5.1.3.2, delete in its entirety.

PAGE 14

TABLE XII, subgroup 1, add the following above insertion loss:

"AC voltage drop (when specified) | 3.12 | 4.6.8 |." Extend the brackets in columns 4 and 5 to include this new test requirement.

PAGE 16

4.6.5b., delete and substitute:

"b. Duration of application of test voltage: 5 seconds minimum, 1 minute maximum."

PAGE 19

4.6.16b, delete and substitute:

"b. Test condition letter: As specified (see 3.1)."

PAGE 20

4.6.16c: Delete.

PAGE 22

4.6.21.2b(1), delete and substitute:

"(1) Material: Beryllium copper per ASTM B 194, Copper Alloy UNS No. C17000, 0.014 ±0.002 inch (0.36 ±0.05 mm) thick. Also acceptable is brass per ASTM B 16, Copper Alloy UNS No. C36000, ½ hard or brass per ASTM B 36, Copper Alloy UNS No. C26000, ½ hard; 0.014 ±0.002.

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5.1.3, delete "MIL-STD-794" and substitute "MIL-STD-2073-1".

5.2.1, fourth line, delete "QQ-S-781" and substitute "ASTM D 3953".

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5.4.3.2.1, ninth line, delete "QQ-S-781" and substitute "ASTM D 3953".

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* 6.5, delete in its entirety and substitute:

"6.5 Tin-plated finish. Tin plating is prohibited (see 3.4.2.1) since it may result in tin whisker growth. Tin whisker growth could adversely affect the operation of electronic equipment systems. For additional information on this matter, refer to ASTM B 545 (Standard Specification for Electrodeposited Coating of Tin)."

* After 6.5, add the following:

"6.6 Changes from previous issue. The margins of this specification are marked with asterisks to indicate where changes (additions, modifications, corrections, deletions) from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

NOTE: The margin of this amendment is marked with an asterisk to indicate where a change (addition) from the previous amendment was made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracy in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous amendment.

CONCLUDING MATERIAL

Custodians:

Army - ER
Navy - EC
Air Force - 85

Review activities:

Army - AR, AT, AV, ME, MI
Navy - AS, MC, OS, SH, YD
Air Force - 19, 99
DLA - ES

Preparing activity:
Navy - EC

Agent:
DLA - ES

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