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INCH-POUND

MIL-PRF-19207D
AMENDMENT 1
24 January 1996

PERFORMANCE SPECIFICATION

FUSEHOLDERS, EXTRACTOR POST TYPE, BLOWN FUSE INDICATING AND NONINDICATING

This amendment forms a part of MIL-F-19207D, dated 23 August 1991, and is approved for use by all Departments and Agencies of the Department of Defense.

PAGE 1

Beneficial comments, name and address, delete and substitute, "Commander, Defense Electronics Supply Center, ATTN: DESC-ELDM, 1507 Wilmington Pike, Dayton, Ohio, 45444-5765, phone (513) 296-6189".

PAGE 2

2.1.1, SPECIFICATIONS, FEDERAL, delete in its entirety and substitute:

"QQ-N-290 - Nickel Plating (Electrodeposited).
"QQ-S-365 - Silver Plating, Electrodeposited: General Requirements for."

2.1.1, SPECIFICATIONS, MILITARY, delete in its entirety and substitute:

"MIL-M-14 - Molding Compounds, Thermosetting.
"MIL-T-10727 - Tin Plating: Electrodeposited or Hot-Dipped, for Ferrous and Nonferrous Metals.
"MIL-F-15160 - Fuses, Instrument, Power, and Telephone.
"MIL-F-23419 - Fuse, Cartridge, Instrument Type, General Specification for."

PAGE 3

2.1.1, STANDARDS, MILITARY, delete in its entirety and substitute:

"MIL-STD-129 - Marking for Shipment and Storage.
"MIL-STD-147 - Palletized Unit Loads.
"MIL-STD-454 - Standard General Requirements for Electronic Equipment
"MIL-STD-810 - Environmental Test Methods and Engineering Guidelines."

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PAGE 4

2.2, Non-Government publications, add the following:

"UNDERWRITERS LABORATORIES, INCORPORATED (UL)

UL 94 - Safety Tests for Flammability of Plastic Materials for Parts in Devices and Appliances,
Standard For.

(Application for copies should be addressed to the Underwriters Laboratories, Incorporated, 333
Pfungsten Road, Northbrook, IL 60062-2096.)

"AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

ANSI/NCSL Z540-1 - Calibration Laboratories and Measuring and Test Equipment - General
Requirements.

"INTERNATIONAL ORGANIZATION FOR STANDARDS (ISO)

ISO 10012-1 - Quality assurance requirements for measuring equipment - Part 1:
Metrological confirmation system for measuring equipment.

(Application for copies should be addressed to the American National Standards Institute (ANSI), 11
West 42nd Street, New York, NY 10036-8002, Telephone (212) 642-4900, Fax (212) 302-1286.)"

PAGE 5

3.3.2.2, delete and substitute:

"3.3.2.2 Flammable material. Material used shall be fire retardant and have a minimum flammability
rating of UL 94HB."

3.3.2.3, delete in its entirety.

3.3.3.1, after the first sentence, add: ", or equivalent as approved by the qualifying activity."

3.3.3.1, after the last sentence, add: ", or equivalent as approved by the qualifying activity."

3.3.4.1, and 3.3.4.2, delete in their entirety.

3.3.4.3, after "QQ-S-365" add: ", or equivalent as approved by the qualifying activity."

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3.3.4.4, after "MIL-T-10727" and "QQ-N-290" add: ", or equivalent as approved by the qualifying
activity" (two places).

3.3.5, after "when required" add: "(see 3.1)".

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3.3.5.1, 3.3.5.2, and 3.3.6, delete in their entirety.

PAGE 7

3.4.6.1, delete in its entirety.

PAGE 9

3.5.18, delete in its entirety.

PAGE 10

3.7, first sentence, delete.

After 4.1.1.2, add the following new paragraph:

"4.1.2 Test equipment and inspection facilities. The manufacturer shall establish and maintain a calibration system in accordance with ANSI/NCSL Z540-1, ISO 10012-1, or equivalent system as approved by the qualifying activity."

PAGE 11

TABLE I, Group I, delete "including inspection for all defects in Table IV".

PAGE 12

TABLE I, Group V, delete "Voltage drop (when specified) (see 3.1)" and all corresponding information.

PAGE 13

4.4.2.1, delete in its entirety.

PAGE 14

TABLE III, delete in its entirety.

4.4.4a, delete in its entirety.

PAGES 15 AND 16

4.5, delete "(see 6.3)".

4.5.3.1, 4.5.3.2, and 4.5.3.3, delete and substitute:

"4.5.3.1 Sampling plan. Group A inspection shall be on an inspection lot basis. Samples shall be selected in accordance with table IV, based on the inspection lot. If there are one or more failures, the inspection lot shall be considered to have failed.

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"4.5.3.2 Rejected lots. If an inspection lot is rejected, the supplier may rework it to correct the defects or 100 percent inspect the lot and remove all defective parts. Reworked lots shall be resubmitted for inspection. Such lots shall be separated from new lots and shall be clearly identified as reinspected lots. If one or more defects are found in this second sample, the lot shall be rejected and shall not be supplied to this specification.

"4.5.3.3 Test routine. All fuseholders in the sample shall be subjected to the tests specified in table V."

PAGE 16

TABLES IV and V, delete and substitute:

"TABLE IV. Group A, zero defect sampling plan.

Lot size	Sample size
1 - 13	100 percent
14 - 150	13
151 - 280	20
281 - 500	29
501 - 1,200	34
1,201 - 3,200	42
3,201 - 10,000	50
10,001 - 35,000	60
35,001 - 150,000	74
150,001 - 500,000	90
500,001 and up	102

"TABLE V. Group A inspection.

Inspection	Requirement paragraph	Test method paragraph
Visual and mechanical examination	3.1	4.6.2
Dielectric withstanding voltage	3.5.4	4.6.4
Contact resistance	3.5.7	4.6.7

4.5.4.1, delete and substitute:

"4.5.4.1 Sampling plan. Group B inspection shall be made on sample units which have been subjected to and have passed group A inspection. Five sample fuseholders from each inspection lot, shall be selected for group B inspection."

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TABLE VI, Examination or test, add: "1".

TABLE VI, delete "Contact resistance" and all corresponding information.

TABLE VI, add footnote:

1/ If the manufacturer can demonstrate that these tests have been performed ten consecutive times with zero failures, the frequency of these tests, with the approval of the qualifying activity, can be performed on a quarterly basis. If the design, material, construction, or processing of the fuseholder is changed or if there are any quality problems or failures, the qualifying activity may require resumption of the original test frequency. Regardless of reduction of tests, the manufacturer shall supply product capable of passing these prescribed tests. (NOTE: If there is no production of a given fuseholder type in the quarter, the manufacturer is not required to perform group B quality testing.)"

TABLE VII, Group II, delete "Voltage drop (when specified)" and all corresponding information.

PAGE 18

After 4.5.5.3, add the following new paragraph and table:

4.5.5.4 Extension of group C inspection. Group C inspection testing may be extended to other fuseholder types provided they comply with table VIII. If group C inspection is performed on the fuseholder type specified in column I, the group C inspection requirement may be granted to the fuseholder types specified in column II, provided that qualification inspection was previously obtained on the fuseholders specified.

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"TABLE VIII. Extension approval for group C inspection.

Column I: Performance of group C inspection on:	Column II: Will extend group C inspection to:
FHL10G	FHL10U, FHL11U, FHL11G, FHL29G1 through G6, FHL30G1 through G6
FHL12G	FHL12U
FHL14G	*FHL13G
FHL16G	FHL15G
FHL17G1	FHL18G1-01 through -09
FHL17G2	FHL18G2-01 through -09
FHN23W	FHL22W
FHN26W	FHN19W
FHN26G1	FHN31G1, FHN55W
FHN26G2	FHN31G2
FHL34W-12	FHL34W-01 through -11, FHL33W-01 through -11
FHL35W-12	FHL35W-01 through -11, FHL32W-01 through -11
FHN41WB	FHN41W, FHN28WB, FHN28W
FHN47WB	FHN47W, FHN46W, FHN46WB
FHL44G-6	FHL44G-1 through FHL44G-5, FHL45G
FHL49U	FHL48U-1 through -6
FHL57G	FHL58G

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4.6.9, delete "500 operations" and substitute "100 operations".

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4.6.20, delete in its entirety.

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5. through 5.5 inclusive, delete and substitute:

"5. PACKAGING

"5.1 Packaging. The requirements for packaging shall be in accordance with the contract or purchase order (see 6.2)."

PAGE 25

6.2f, delete and substitute:

"f. Requirements for packaging (see 5.1)."

6.3, delete in its entirety.

PAGE 26

6.3.1, delete in its entirety.

6.4, address, delete and substitute: "Commander, Defense Electronics Supply Center, ATTN: DESC-ELSP, 1507 Wilmington Pike, Dayton, Ohio, 45444-5764, phone (513) 296-6277".

6.8, delete and substitute:

"6.8 Part or Identifying Number (PIN). The PIN to be used for fuseholders acquired to this specification should be as specified in 6.8.1. Previous references to "M" based PIN's will not be used."

CONCLUDING MATERIAL

Custodians:

Army - ER
Navy - SH
Air Force - 85

Preparing activity:
DLA - ES

(Project 5920-0517)

Review activities:

Army - AR, AT, ME, MI
Navy - AS, EC, MC, OS
Air Force - 17, 19, 70, 71, 80, 82, 84, 99