

MILITARY SPECIFICATION
FUSES, INSTRUMENT, POWER, AND TELEPHONE
GENERAL SPECIFICATION FOR

This amendment forms a part of MIL-F-15160G, dated 29 October 1990,
and is approved for use by all Departments and Agencies of the Department
of Defense

PAGE 1

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

PAGE 3

2 1 1, SPECIFICATIONS, FEDERAL, delete in its entirety and substitute

- "J-C-30 - Cable and Wire, Electrical (Power, Fixed Installation).
- "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-T-10727 - Tin Plating, Electrodeposited or Hot-Dipped, for Ferrous and Nonferrous Metals
- "MIL-F-19207 - Fuseholders, Extractor, Post Type, Blown Fuse Indicating and Nonindicating, General Specification for "

PAGE 4

2 1 1, STANDARDS, MILITARY, delete in its entirety and substitute.

- "MIL-STD-202 - Test Methods for Electronic and Electrical Component Parts
- "MIL-STD-1285 - Marking of Electrical and Electronic Parts "

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2 2, ASTM standards, delete in its entirety and substitute

"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 4 1, line three, delete "form" and substitute "from"

PAGE 6

3 4 3 1, delete and substitute

"3 4 3 1 Glass. Glass shall permit the enclosed fuse element to be readily seen "

3 4 3 2 through 3 4 4, delete in their entirety

PAGE 7

3 5 4 1, after "QQ-S-365", add the following ",or equivalent as approved by the qualifying activity "

3 5 4 1, last sentence, delete in its entirety

3 5 4 2, after "QQ-N-290", add the following ",or equivalent as approved by the qualifying activity "

3 5 4 4, after "MIL-T-10727", add the following ",or equivalent as approved by the qualifying activity "

PAGE 8

3 10, last sentence, delete in its entirety

3 11, delete in its entirety

3 12, last sentence, delete in its entirety

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PAGE 11

Following 4 1 1, add the following

"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 "

4 4 and TABLE III, delete in their entirety

PAGE 12

TABLE IV, Group II and Group III, delete "Insulation resistance" and all corresponding information

PAGE 13

TABLE IV, title, delete and substitute "TABLE IV Qualification inspection - Continued "

TABLE IV, Group V, after "Low voltage overload interrupt", add "(when specified)"

4 5 4, delete "12-month" and substitute "36-month"

PAGE 14

4 5 4, second paragraph, delete "12-month" and substitute "36-month"

PAGE 15

4 7 1 2 1 and TABLE VI, delete and substitute

"4 7 1 2 1 Sampling plan Group A inspection shall be on an inspection lot basis Samples shall be selected in accordance with table VI, based on the inspection lot If there are one or more failures, the inspection lot shall be considered to have failed

"4 7 1 2 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 7 1 2 3 Test routine All fuses in the sample shall be subjected to the tests specified in table V

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"TABLE VI Group A, zero defect sampling plan 1/

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

1/ At the option of the manufacturer, in-process inspection such as Statistical Process Control, which includes inspection of all of the examinations or tests specified in table V, may be used after approval from the qualifying activity in lieu of the sampling plan specified in table VI. All of the in-process control data for these tests shall be made available to the qualifying activity upon request."

PAGE 16

4 7 1 2 1 1 and TABLE VII, delete in their entirety

PAGE 17

TABLE V, title, delete and substitute, "TABLE VIII Group B inspection"

TABLE VIII, Test column, add "2/

TABLE VIII, delete "Insulation resistance" and all corresponding information

TABLE VIII, add the following footnote

"2/ 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 fuse is changed, or if there are any quality problems or failures, the qualifying activity may require resumption of the original test frequency."

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TABLE IX, footnote 3/, delete and substitute

"3/ At the option of the manufacturer, in-process inspection such as Statistical Process Control, which includes inspection of all of the examinations or tests specified in table VIII, may be used after approval from the qualifying activity in lieu of the sampling plan specified in table IX. All of the in-process control data for these tests shall be made available to the qualifying activity upon request "

4 7 2, line three, delete "passes" and substitute "passed"

PAGE 18

TABLE X, Group I (four samples), add "3/"

TABLE X, Group I, delete "Insulation resistance" and all corresponding information

TABLE X, Group II (four samples), add "2/"

TABLE X, Group IV, test method column, delete "4 10 1" and substitute "4 9 10 1"

TABLE X, add the following footnotes

"2/ For group C inspection, shock and vibration may be performed on only the maximum current rating for each characteristic

"3/ The short circuit interrupt test may be waived provided sufficient evidence can be provided, to the qualifying activity, that these fuses have passed the UL short circuit "

PAGE 19

4 9 2, lines nine and ten, delete "MIL-F-21346" and substitute "MIL-F-19207"

PAGE 20

4 9 5, sixth sentence, delete

PAGE 21

4 9 6, delete in its entirety

PAGE 22

4 9 8a, delete "MIL-F-21346" and substitute "MIL-F-19207"

4 9 8c, delete "4 9 10" and substitute "4 9 1"

4 9 9a, delete "MIL-F-21346" and substitute "MIL-F-19207"

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PAGE 23

5 through 5 4 inclusive, delete in its entirety and substitute

"5 PACKAGING

"5 1 Packaging The requirements for packaging shall be in accordance with the contract or purchase order (see 6 2) "

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6 2, delete 6 2j through 6 2n, and substitute

"j Requirements for packaging (see 5 1)

"k Special marking, if required (see 3 15 3) "

6 3, delete in its entirety

PAGE 29

6 5, address, delete and substitute, "Commander, Defense Electronics Supply Center, ATTN DESC-ELSP, 1507 Wilmington Pike, Dayton, Ohio, 45444-5764, phone (513) 296-6277"

CONCLUDING MATERIAL

Custodians

Army - ER

Navy - SH

Air Force - 85

Preparing activity

DLA - ES

(Project 5920-0505)

Review activities

Army - AR, AT, ME, MI

Navy - AS, CG, MC, OS, YD1

Air Force - 17, 19, 99