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5 August 2026

MEMORANDUM FOR MILITARY/INDUSTRY DISTRIBUTION

SUBJECT: Initial Drafts of MIL-PRF-23419/2R with Amendment 2, MIL-PRF-23419/4H with Amendment 2, MIL-PRF-23419/7J with Amendment 2, and MIL-PRF-23419/8J with Amendment 2.

Project numbers 5920-2026 -009, -010, -011, and -012.

The drafts of the above subject document are being sent to you for review and comments. These documents are being considered for Amendment.

- Update to current MIL-STD-961 changes and update the format to be compliance with section 508/accessibility.

If these documents are an interest to you, please provide your comments electronically. This can be in the form of a return e-mail, with or without an attached text file. A 30 day coordination cycle from the date of this letter has been allotted. Please provide your comments within that time period. If no comments are received in the allotted 30 day coordination cycle, concurrence is assumed and all comments received after will be held to the first amendment. If an electronic response is not possible, we will still accept comments via letter or phone call but only after you have contacted the project officer listed below. The draft document can be found at the following DLA Land and Maritime web page:

<https://landandmaritimeapps.dla.mil/programs/milspec/default.aspx>

This process still requires military departments to identify their comments as “Essential” or “Suggested”. Essential comments must be justified with supporting data. Military review activities should forward comments to their custodians or this office, as applicable, in sufficient time to allow for consolidating the department reply.

If there are any questions, please contact Yeasvina Afroz by the preferred method of E-Mail at Yeasvina.Afroz@dlamail or by telephone at 614-693-0172. Our mailing address as a last resort is, DLA Weapons Support Columbus- VAT, P.O. Box 3990, Columbus, OH 43218-3990. If you have further questions or concerns you may contact me at James Eschmeyer E-Mail at James.Eschmeyer@dlamail or by telephone at 614-693-0178.

/Sign/
James Eschmeyer
Chief
Microelectronics Branch

NOTE: This initial draft, dated 5 August 2026 prepared by DLA-CC, has not been approved and is subject to modification. DO NOT USE PRIOR TO APPROVAL. (Project 5920-2026-011)

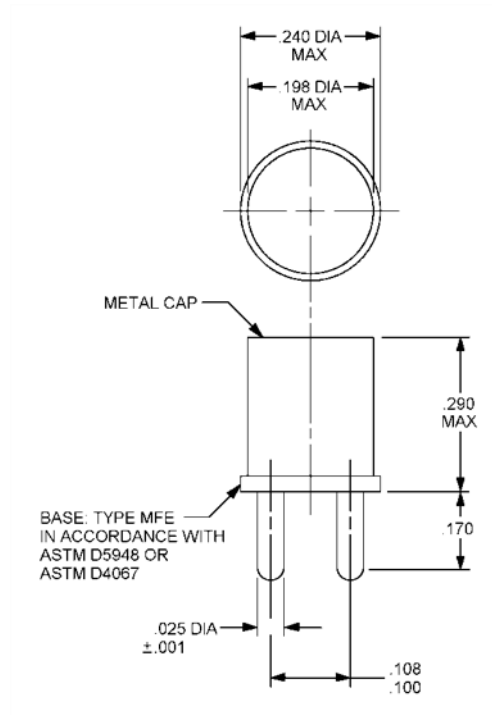
INCH-POUND
MIL-PRF-23419/7J
w/AMENDMENT 2
DRAFT
SUPERSEDING
MIL-PRF-23419/7J
w/AMENDMENT 1
21 April 2017

PERFORMANCE SPECIFICATION SHEET

FUSES, CARTRIDGE, INSTRUMENT TYPE, STYLE FM07, (SUBMINIATURE - HIGH PERFORMANCE)

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 [MIL-PRF-23419](#).



<u>Inches</u>	<u>mm</u>	<u>Inches</u>	<u>mm</u>	<u>Inches</u>	<u>mm</u>
.001	0.03	.108	2.74	.240	6.10
.025	0.64	.170	4.32	.290	7.37
.100	2.54	.198	5.03		

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is ± 0.010 (0.25 mm).

FIGURE 1. Style FM07 fuses.



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REQUIREMENTS:

Interface and physical dimensions: See figure 1.

Fuse cap:

Material: Brass.

Finish: Gold.

Fuse holders:

[MIL-PRF-19207/26](#)

[MIL-PRF-19207/28](#)

[MIL-PRF-19207/29](#)

Terminals:

Material: Brass.

Finish: Gold plate.

Current rating: See table I.

Characteristic: See table I.

Voltage rating: See table I.

Resistance: See table I.

Voltage drop: See table I.

Current carrying capacity: 100 percent at +25°C; 110 percent at -55°C, 90 percent at +85vC. Connecting wire shall be #14 and fuseholders shall not be spaced closer than 1 inch (25.4 mm) apart. The temperature of the case, body, or terminals shall rise at no point more than 70°C above ambient air temperature.

Terminal strength: 5 pounds-force along terminal axis; 5 pounds-force perpendicular to terminal axis at base.

Overload interrupt: Percentage of nominal rating, interrupt time -55°C through +125°C. 200 percent in 0 second to 10 seconds; 300 percent in 0 second to 0.1 second.

Short circuit: Short circuit interrupt rating 10,000 ac amperes.

Shock: Method I, except Part or Identifying Number (PIN) FM07A125V1/500A shall be tested in accordance with [MIL-STD-202-213](#), test condition A.

Thermal shock: [MIL-STD-202-107](#), test condition B.

Part or Identifying Number (PIN): The PIN is derived from table I and shall be as shown in table IV.

Marking: Manufacturer's name or trademark, current rating, and PIN only.

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Verification: The following tests shall be conducted on 100 percent of the units, in the order shown, prior to any tests referenced in [MIL-PRF-23419](#). Nonconforming units shall be removed from the lot.

Seal: Immerse in a clear mineral oil bath at +125°C for 1 minute. No bubbles shall be detected.
(See [MIL-STD-202-112](#), test condition A.)

Voltage drop: See table I.

Resistance: See table I.

Visual and mechanical: Inspection shall be by 3X minimum magnification.

TABLE I. PIN identification.

PIN				Cold resistance (ohms) <u>1/</u>		Voltage drop (volts) <u>2/</u>	
Style	Characteristic	Maximum voltage (volts)	Current rating (amperes)	Minimum	Maximum	Minimum	Maximum
FM07	A	125V	1/500A	1,750	2,250	3.56	5.34
			1/200A	245	315	1.74	2.60
			1/100A	82.2	106	1.28	1.92
			1/64A	38.5	49.5	.864	1.30
			1/32A	14.4	18.5	.680	1.02
			1/20A	2.82	3.58	.168	.247
			1/16A	1.98	2.52	.148	.222
			1/10A	1.03	1.31	.130	.194
			1/8A	.880	1.12	.151	.225
			2/10A	2.03	2.57	.400	.600
			1/4A	1.54	1.96	.368	.552
			3/10A	1.10	1.40	.320	.480
			4/10A	.193	.261	.123	.184
			1/2A	.142	.192	.110	.160
			6/10A	.119	.161	.114	.171
			7/10A	.097	.131	.105	.157
			3/4A	.088	.120	.101	.151
			8/10A	.080	.108	.101	.153
			1A	.088	.112	.106	.158
			1-1/2A	.0555	.0705	.113	.169
			2A	.0405	.0515	.098	.146
			3A	.0299	.0381	.106	.162
			4A	.0167	.0213	.080	.120
			5A	.0159	.0201	.106	.160

1/ Cold resistance is measured at 10 percent or less of rated current.

2/ Voltage drop is measured after the fuse has been subjected to rated current for not less than one minute.

Qualification and group C inspection:

Inspection routine. The number of group II samples for qualification, and subgroup 2 samples for group C inspection, shall be as shown in table II below:

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TABLE II. Group II and subgroup 2 samples.

Inspection	Number of sample fuses
Group II and subgroup 2	16
Terminal strength	4
Overload interrupt	
200 percent at -55°C	4
200 percent at +125°C	4
300 percent at -55°C	4
300 percent at +125°C	4

The number of group III samples for qualification, and subgroup 1 for group C inspection, shall consist of four fuses of each of the styles shown in table III. Short circuit interrupt tests shall be conducted at the ac voltage and dc voltage indicated, and the fuses shall be capable of withstanding a minimum short circuit current as shown in table III.

TABLE III. Short circuit tests. 1/

Fuse style	Current rating (amps)	Short circuit current (ac and dc)	AC and DC voltages
FM07	1/500 A 5 A	10,000 A	125 V

1/ AC short circuit test current may be applied at a random point.

TABLE IV. Supersession information.

Superseding PIN	Superseded numbers in accordance with MIL-F-23419/7B 17 August 77	Superseded numbers in accordance with MIL-F-23419/7A 18 November 70	Superseded numbers in accordance with MIL-F-23419/7 17 October 68
FM07A125V1/500A	FM07125V1/500A	FM07-125V-1/500A	FM07-1/500A
FM07A125V1/200A	FM07125V1/200A	FM07-125V-1/200A	FM07-1/200A
FM07A125V1/100A	FM07125V1/100A	FM07-125V-1/100A	FM07-1/100A
FM07A125V1/64A	FM07125V1/64A	FM07-125V-1/64A	FM07-1/64A
FM07A125V1/32A	FM07125V1/32A	FM07-125V-1/32A	FM07-1/32A
FM07A125V1/20A	FM07125V1/20A	FM07-125V-1/20A	FM07-1/20A
FM07A125V1/16A	FM07125V1/16A	FM07-125V-1/16A	FM07-1/16A
FM07A125V1/10A	FM07125V1/10A	FM07-125V-1/10A	FM07-1/10A
FM07A125V1/8A	FM07125V1/8A	FM07-125V-1/8A	FM07-1/8A
FM07A125V2/10A	FM07125V2/10A	FM07-125V-2/10A	FM07-2/10A
FM07A125V1/4A	FM07125V1/4A	FM07-125V-1/4A	FM07-1/4A
FM07A125V3/10A	FM07125V3/10A	FM07-125V-3/10A	FM07-3/10A
FM07A125V4/10A	FM07125V4/10A	FM07-125V-4/10A	FM07-4/10A
FM07A125V1/2A	FM07125V1/2A	FM07-125V-1/2A	FM07-1/2A
FM07A125V6/10A	FM07125V6/10A	FM07-125V-6/10A	FM07-6/10A
FM07A125V7/10A	FM07125V7/10A	FM07-125V-7/10A	FM07-7/10A
FM07A125V3/4A	FM07125V3/4A	FM07-125V-3/4A	FM07-3/4A
FM07A125V8/10A	FM07125V8/10A	FM07-125V-8/10A	FM07-8/10A
FM07A125V1A	FM07125V1A	FM07-125V-1A	FM07-1A
FM07A125V1-1/2A	FM07125V1-1/2A	FM07-125V-1-1/2A	FM07-1-1/2A
FM07A125V2A	FM07125V2A	FM07-125V-2A	FM07-2A
FM07A125V3A	FM07125V3A	FM07-125V-3A	FM07-3A
FM07A125V4A	FM07125V4A	FM07-125V-4A	FM07-4A
FM07A125V5A	FM07125V5A	FM07-125V-5A	FM07-5A

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Referenced documents. In addition to [MIL-PRF-23419](#), this document references the following:

[ASTM D4067](#)
[ASTM D5948](#)
[MIL-STD-202-107](#)
[MIL-STD-202-112](#)
[MIL-STD-202-213](#)
[MIL-PRF-19207/26](#)
[MIL-PRF-19207/28](#)
[MIL-PRF-19207/29](#)

Amendment notations. The margins of this specification sheet are marked with vertical line to indicate modifications generated by this amendment. 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

CONCLUDING MATERIAL

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

Preparing activity:
DLA - CC
(Project 5920-2026-011)

Review activities:
Army - AR, AT, AV, MI
Navy - AS
Air Force - 19, ~~99~~
Other DoD - NS

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