[INCH-POUND]
A-A-55519/3A
March 14, 2001
SUPERSEDING
A-A-55519/3
November 4, 1996

COMMERCIAL ITEM DESCRIPTION

FUSE, INCLOSED LINK, SUBMINIATURE, SURFACE MOUNT (SM)
VERY FAST ACTING, WITH WRAP AROUND TERMINALS

The General Services Administration has authorized the use of this commercial item description (CID) for all federal agencies.

The complete requirements for procuring the fuses described herein shall consist of this document and the issue in effect of CID A-A-55519.

CLASSIFICATION. This CID uses a classification system which is included in the Part Identification Number (PIN) as shown in the following example (see notes).

AA55519/03	-	001		A
CID number		Dash number (see table I)		Opening time characteristics (see table III)

SALIENT CHARACTERISTICS.

Interface and physical dimensions. Fuses supplied to this CID shall be as specified herein (see figure 1).

Electrical specifications.

Voltage rating. The voltage rating shall be 125 V ac and 125 V dc maximum.

Interrupting ratings. The interrupting ratings shall be as indicated in table II.

Opening time characteristics. The opening time characteristics shall be as indicated in table III.

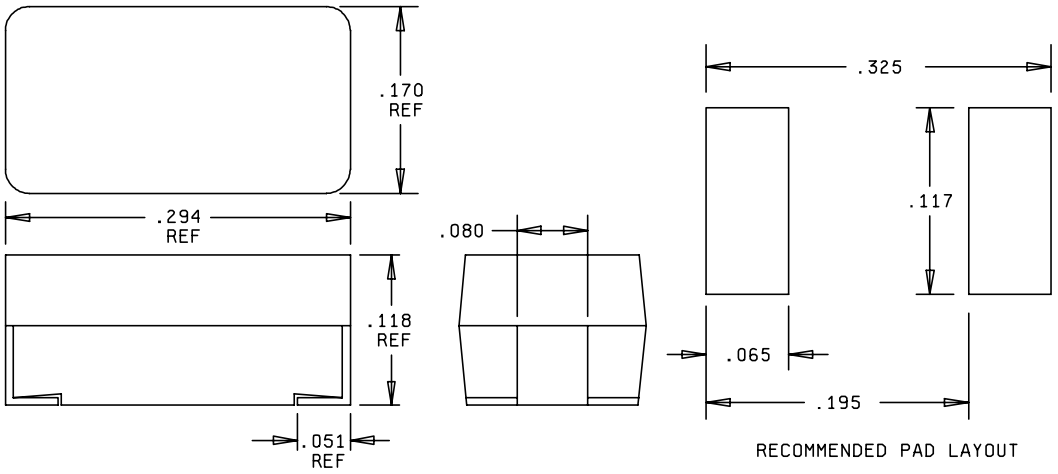
Environmental specifications. Fuses supplied to this CID shall be subject to the following tests and there shall be no electrical or mechanical damage to the fuse.

Operating temperature. The operating temperature shall be -67°F (-55°C) to 257°F (+125°C).

Shock. Fuses shall meet shock requirements in accordance with method 213, MIL-STD-202, test condition I (100 g's peak for 6 milliseconds).

Vibration. Fuses shall meet vibration requirements in accordance with method 201, MIL-STD-202, (10 Hz - 55 Hz, (.06 inch maximum total excursion)).

PIN. The PIN should be used for Government purposes to buy commercial products to this CID. See classification information for PIN format example.



Inches	mm	Inches	mm
.051	1.295	.170	4.32
.065	1.651	.195	4.953
.080	2.032	.285	7.239
.117	2.972	.325	8.255
.118	3.0		

NOTES:

1. Dimensions are in inches.
2. Tolerance is ±.006 inch (0.15 mm).

FIGURE 1. Configuration and dimensions.

TABLE I. Electrical characteristics

CID dash number AA55519/03-	Ampere rating	Nominal resistance cold ohms	Nominal melting I^2t A^2 second
001	.0625	7.0	0.000075
002	.125	1.70	0.00163
003	.250	0.665	0.0106
004	.375	0.395	0.0254
005	.5	0.275	0.0546
006	.75	0.166	0.155
007	1.0	0.122	0.281
008	1.5	0.0817	0.650
009	2.0	0.0468	0.421
010	2.5	0.0350	0.721
011	3.0	0.0290	1.23
012	3.5	0.0240	1.65
013	4.0	0.0224	2.35
014	5.0	0.0155	3.90

TABLE II. Interrupting ratings.

Ampere (A) range	Interrupting rating
All ampere ratings	50 amperes at 125 V ac

Insulation resistance (after opening). The insulation resistance after opening shall be 10,000 ohms minimum at 100 volts in accordance with method 302, MIL-STD-202, test condition A.

Resistance to soldering heat. Fuses shall meet resistance to soldering heat requirements in accordance with method 210, MIL-STD-202, test condition B (10 seconds at 500°F (260°C)).

Thermal shock. Fuses shall meet thermal shock requirements in accordance with method 107, MIL-STD-202, test condition B -85°F (-65°C) to +257°F (125°C).

Moisture resistance. Fuses shall meet moisture resistance requirements in accordance with method 106, MIL-STD-202, with the exception of no load voltage during this test and step 7 shall not be performed.

Physical specifications.

Materials. Fuses shall have a molded plastic body with copper terminals.

Soldering parameters. Fuses shall be able to withstand, without electrical or mechanical damage to the fuse, a wave solder of +500°F (260°C) for 10 seconds maximum, and an infrared solder of +500°F (260°C) for 30 seconds maximum. Cartridge fuses shall also be able to withstand without damage a vapor phase solder of +420°F (215°C) for 120 seconds maximum.

Solderability. Fuses shall meet solderability requirements in accordance with method 208 of MIL-STD-202.

TABLE III. Rating versus opening time.

Ampere rating	Opening time characteristics	Percent of ampere rating	Opening time
All ampere ratings	A	100 percent	4 hours, minimum
		100 percent	1 second, maximum
	B	100 percent	4 hours, minimum
		250 percent	5 seconds, maximum

NOTES.

Source of document.

Military standards

MIL-STD-202 - Test Methods for Electronic and Electrical Component Parts.

(Copies of military standards are available from the Document Automation and Production Service, Building 4D (DPM-DODSSP), 700 Robbins Avenue, Philadelphia, PA 19111-5094).

Other Publications.

ELECTRONICS INDUSTRY ASSOCIATION (EIA)

EIA 481 - Taping of Surface Mount Components for Automatic Placement.

(Applications for copies should be addressed to the Electronics Industry Association, 2500 Wilson Boulevard, Arlington, VA 22201-3834.)

(Industry association specifications and standards are generally available for reference from libraries. They are also distributed among technical groups and using Federal agencies.)

Commercial products. As part of the market analysis and research effort, this CID was coordinated with the following manufacturers of commercial products. At the time of CID preparation and coordination, these manufacturers were known to have commercial products that would meet the requirements of this CID. (NOTE: This information should not be considered as a list of approved manufacturers or be used to restrict procurement to only the manufacturers shown.)

MFR's CAGE	MFR's name and address
61935	Schurter, Incorporated 1016 Clegg Court Peteluma, CA 94954-1152 Phone number: (707) 778-6311 Facsimile number: (707) 778-6401 Uniform Resource Locator (URL): www.schurterinc.com

71400	Cooper Bussmann, Incorporated P. O. Box 14460 St. Louis, MO 63178-4460 Phone number: (636) 394-2877 Facsimile number: (800) 544-2570 E-mail: fusebox@buss.com URL: www.bussmann.com
75915	Littelfuse Incorporated 800 E. Northwest Highway Des Plaines, IL 60016-3096 Phone number: (847) 824-1188 Facsimile number: (847) 391-0894 E-mail: electronics@littelfuse.com URL: www.littelfuse.com

Part number (P/N) supersession data. These CID part numbers supersede the following MFR's P/N's as shown. This information is being provided to assist in reducing proliferation in the government inventory system.

TABLE IV. P/N supersession data.

CID dash number (see table I) AA55519/03-	MFGR's CAGE	MFGR's PIN 1/	MFGR's CAGE	MFGR's PIN 1/
001A	61935	3404.0003.11	75915	459.062
001B	71400	SFT-63ma	---	---
002A	61935	3404.0049.11	75915	459.125
002B	71400	SFT-125ma	---	---
003A	61935	3404.0006.11	75915	459.250
003B	71400	SFT-250ma	---	---
004A	61935	3404.0044.11	75915	459.375
004B	71400	SFT-375ma	---	---
005A	61935	3404.0045.11	75915	459.500
005B	71400	SFT-500ma	---	---
006A	61935	3404.0046.11	75915	459.750
006B	71400	SFT-750ma	---	---
007A	61935	3404.0009.11	75915	459001
007B	71400	SFT-1A	---	---
008A	61935	3404.0047.11	75915	45901.5
008B	71400	SFT-1.5A	---	---
009A	61935	3404.0012.11	75915	459002
009B	71400	SFT-2A	--	---
010A	61935	3404.0013.11	75915	45902.5

TABLE IV. P/N supersession data - continued.

CID dash number (see table I) AA55519/03-	MFGR's CAGE	MFGR's PIN 1/	MFGR's CAGE	MFGR's PIN 1/
010B	71400	SFT-2.5A	---	---
011A	61935	3404.0014.11	75915	459003
011B	71400	SFT-3A	---	---
012A	61935	3404.0015.11	75915	45903.5
012B	71400	SFT-3.5A	---	---
013A	61935	3404.0016.11	75915	459004
013B	71400	SFT-4A	---	---
014A	61935	3404.0017.11	75915	459005
014B	71400	SFT-5A	---	---

1/ The manufacturer (MFGR) PIN shall not be used for procurement to the requirements of this CID. At the time of preparation of this CID, the aforementioned commercial products were reviewed and could be replaced by the CID PIN shown.

National stock number (NSN). The following is a list of NSN's assigned which correspond to this CID. The list is for information only and may not be indicative of all possible NSN's associated with the CID. For up to date information on assigned NSN's, please contact the Defense Supply Center, Columbus, ATTN: DSCC-CSBB, Post Office Box 3990, Columbus, OH 43216-5000, or telephone (614) 692-7625.

TABLE III. NSN's.

Dash number (see table I) AA55519/03-	NSN	Dash number (see table I) AA55519/03-	NSN
001A	N/A	008A	N/A
001B	N/A	008B	N/A
002A	N/A	009A	N/A
002B	N/A	009B	N/A
003A	N/A	010A	5920-01-370-2731
003B	N/A	010B	N/A
004A	N/A	011A	N/A
004B	N/A	011B	N/A
005A	N/A	012A	N/A
005B	N/A	012B	N/A
006A	N/A	013A	N/A
006B	N/A	013B	N/A
007A	N/A	014A	N/A
007B	N/A	014B	N/A

MILITARY INTERESTS:

Custodians:
Navy - EC

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - 7FXE

Preparing Activity:

DLA-CC

Project 5920-0699