

COMMERCIAL ITEM DESCRIPTION  
SPECIFICATION SHEET

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 for all federal agencies.

The complete requirements for procuring the fuses described herein shall consist of this document and the issue in effect of [A-A-55519](#).

CLASSIFICATION/PART OR IDENTIFICATION NUMBER (PIN). This commercial item description (CID) specification sheet uses a classification system which is included in the PIN as shown in the following example (see NOTES).



SALIENT CHARACTERISTICS.

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

Electrical specifications. See table I.

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.

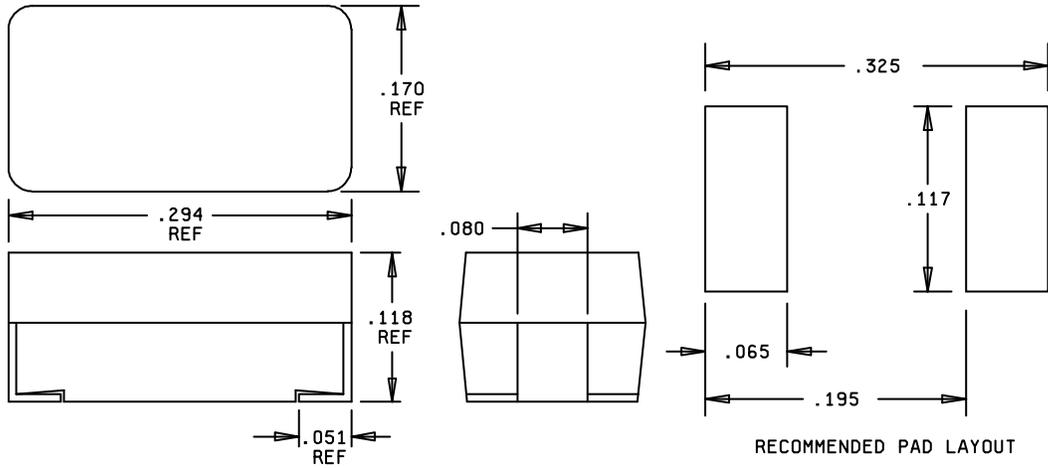
Operating temperature. The operating temperature shall be -67°F (-55°C) to 257°F (+125°C).

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)).

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](#).

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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  $\pm 0.006$  inch (0.15 mm).

FIGURE 1. Configuration and dimensions.

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TABLE I. Electrical characteristics

CID dash number AA55519/03-	Ampere rating	Nominal resistance cold ohms	Nominal melting I <sup>2</sup> t A <sup>2</sup> 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

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
		200 percent	1 second, maximum
	B	100 percent	4 hours, minimum
		250 percent	5 seconds, maximum

PACKAGING. Packaging shall be as specified in [A-A-55519](#). In addition, inclosed link fuses may be supplied individually or in a quantity of 500 on a 12 mm (.472 inches) wide tape reel in accordance with [ECA EIA 481](#).

NOTES.

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

Source of documents.

MILITARY STANDARDS

[MIL-STD-202](#) - Electronic and Electrical Component Parts, Test Methods for.

(Copies of this document is available online at <https://assist.daps.dla.mil/quicksearch/> or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.)

Other Publications

ELECTRONIC COMPONENTS ASSOCIATION/ELECTRONICS INDUSTRY ASSOCIATION (ECA/EIA)

[ECA EIA 481](#) - 8 mm Through 200 mm Embossed Carrier Taping and 8 mm & 12 mm Punched Carrier Taping of Surface Mount Components for Automatic Handling.

(Copies of this document is available online at <http://ec-central.org>. or from the Electronic Components Association, 2500 Wilson Boulevard, Arlington, VA 22201-3837)

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

<u>MFR's CAGE</u>	<u>MFR's name and address</u>
61935	Schurter, Incorporated 447 Aviation Boulevard Santa Rosa, CA 95403-1069 Phone number (707) 636-3000 Facsimile number (707) 636-3033 E-mail: <a href="mailto:info@schurterinc.com">mailto:info@schurterinc.com</a> Uniform Resource Locator (URL): <a href="http://www.schurter.com">http://www.schurter.com</a>
75915	Littelfuse Incorporated 8755 W. Higgins Road; Suite 500 Chicago, IL 60631-2708 Phone number (800) 999-9445 Facsimile number (847) 391-0753 E-mail: <a href="mailto:electronics@littelfuse.com">mailto:electronics@littelfuse.com</a> URL: <a href="http://www.littelfuse.com">http://www.littelfuse.com</a>

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Part number (P/N) supersession data. These CID specification sheet PINs 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 <u>1</u> /	MFGR's CAGE	MFGR's PIN <u>1</u> /
001A	61935	3404.0003.11	75915	459.062
001B	N/A	N/A	N/A	N/A
002A	61935	3404.0049.11	75915	459.125
002B	N/A	N/A	N/A	N/A
003A	61935	3404.0006.11	75915	459.250
003B	N/A	N/A	N/A	N/A
004A	61935	3404.0044.11	75915	459.375
004B	N/A	N/A	N/A	N/A
005A	61935	3404.0045.11	75915	459.500
005B	N/A	N/A	N/A	N/A
006A	61935	3404.0046.11	75915	459.750
006B	N/A	N/A	N/A	N/A
007A	61935	3404.0009.11	75915	459001
007B	N/A	N/A	N/A	N/A
008A	61935	3404.0047.11	75915	45901.5
008B	N/A	N/A	N/A	N/A
009A	61935	3404.0012.11	75915	459002
009B	N/A	N/A	N/A	N/A
010A	61935	3404.0013.11	75915	45902.5

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TABLE IV. P/N supersession data - Continued.

CID dash number (see table I) AA55519/03-	MFGR's CAGE	MFGR's PIN <u>1/</u>	MFGR's CAGE	MFGR's PIN <u>1/</u>
010B	N/A	N/A	N/A	N/A
011A	61935	3404.0014.11	75915	459003
011B	N/A	N/A	N/A	N/A
012A	61935	3404.0015.11	75915	45903.5
012B	N/A	N/A	N/A	N/A
013A	61935	3404.0016.11	75915	459004
013B	N/A	N/A	N/A	N/A
014A	61935	3404.0017.11	75915	459005
014B	N/A	N/A	N/A	N/A

1/ The manufacturer's P/N shall not be used for acquisition to the requirements of this CID specification sheet. At the time of preparation of this CID specification sheet, the aforementioned commercial products were reviewed and could be replaced by the CID P/N shown. For actual part marking requirements, see the marking paragraph of [A-A-55519](#).

National stock number (NSN). The following is a list of NSN's assigned which correspond to this CID specification sheet. The list is for information only and may not be indicative of all possible NSN's associated with the CID specification sheet. For up to date information on assigned NSN's, please contact the aforementioned DSCC office listed in [A-A-55519](#).

TABLE V. 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

Changes from previous issue. The margins of this CID specification sheet are marked with asterisks to indicate where changes 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.

MILITARY INTERESTS:

Custodians:  
Navy - EC  
DLA - CC

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - FAS  
Preparing activity:  
DLA-CC  
Project 5920-2011-086

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 the ASSIST Online database at <https://assist.daps.dla.mil>.