

[INCH-POUND]
A-A-55519/4A
December 10, 2001
SUPERSEDING
A-A-55519/4
November 4, 1996

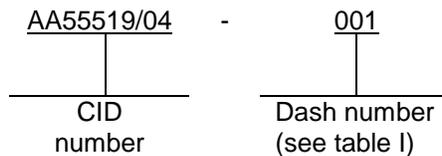
COMMERCIAL ITEM DESCRIPTION
SPECIFICATION SHEET

FUSE, INCLOSED LINK, SUBMINIATURE, SURFACE MOUNT (SM)
TIME DELAY, 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 that is included in the Part Identification
Number (PIN) as shown in the following example (see notes).



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.

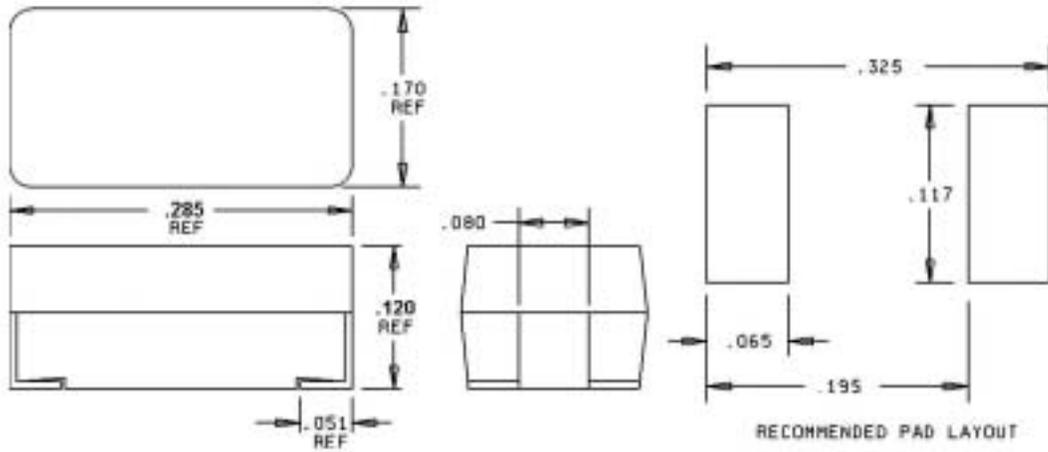
Operating temperature. The operating temperature shall be -67°F (-55°C) to 257°F (+125°C).

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.

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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
.120	3.1		

NOTES:

1. Dimensions are in inches.
2. Tolerance is ± 0.006 inch (0.15 mm).

FIGURE 1. Configuration and dimensions.

TABLE I. Electrical characteristics

CID dash number AA55519/04-	Ampere rating	Nominal resistance cold ohms	Nominal melting I ² t A ² second
001	.5	1.13	0.210
002	.75	0.460	0.760
003	1.0	0.267	2.01
004	1.5	0.117	3.94
005	2.0	0.0700	7.60
006	2.5	0.0500	13.0
007	3.0	0.0390	21.0
008	3.5	0.0231	26.8
009	4.0	0.0186	35.0
010	5.0	0.0128	54.8

TABLE II. Interrupting ratings.

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

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	Percent of ampere rating	Opening time
All ampere ratings	100 percent	4 hours, minimum
	200 percent	1 second, minimum; 60 seconds, maximum.

NOTES.

Source of document.

DEPARTMENT OF DEFENSE

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

75915

MFR's name and address

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
 Uniform Resource Locator (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) AA55519/04-	MFGR's CAGE	MFGR's PIN <u>1/</u>
001	79515	460.500
002	79515	460.750
003	79515	460001
004	79515	46001.5
005	79515	460002
006	79515	46002.5
007	79515	460003
008	79515	46003.5
009	79515	460004
010	79515	460005

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.

MILITARY INTERESTS:

Custodians:
Navy - EC
DLA - CC

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - 7FXE
Preparing Activity:
DLA-CC
Project 5920-0752-01