

[INCH-POUND]
A-A-55561/1A
August 25, 2000
SUPERSEDING
A-A-55562/1
March 29, 1995

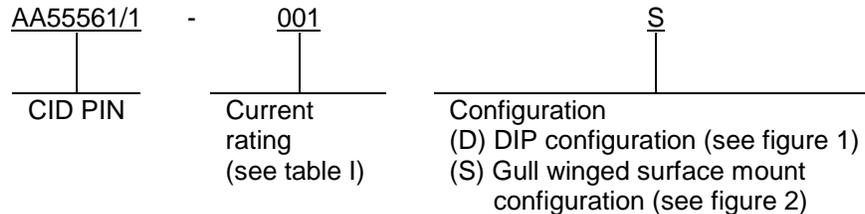
COMMERCIAL ITEM DESCRIPTION

FUSE, INCLOSED LINK, DUAL-INLINE PACKAGE (DIP), OR SURFACE MOUNT (SM), FAST ACTING

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-55561.

CLASSIFICATION. This CID uses a classification system which 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 and 2).

Ampere rating. The ampere rating shall be as specified in table I.

Voltage rating. The voltage rating shall be 250 V ac maximum.

Interrupting ratings. The interrupting rating shall be 50 amperes at 250 V ac.

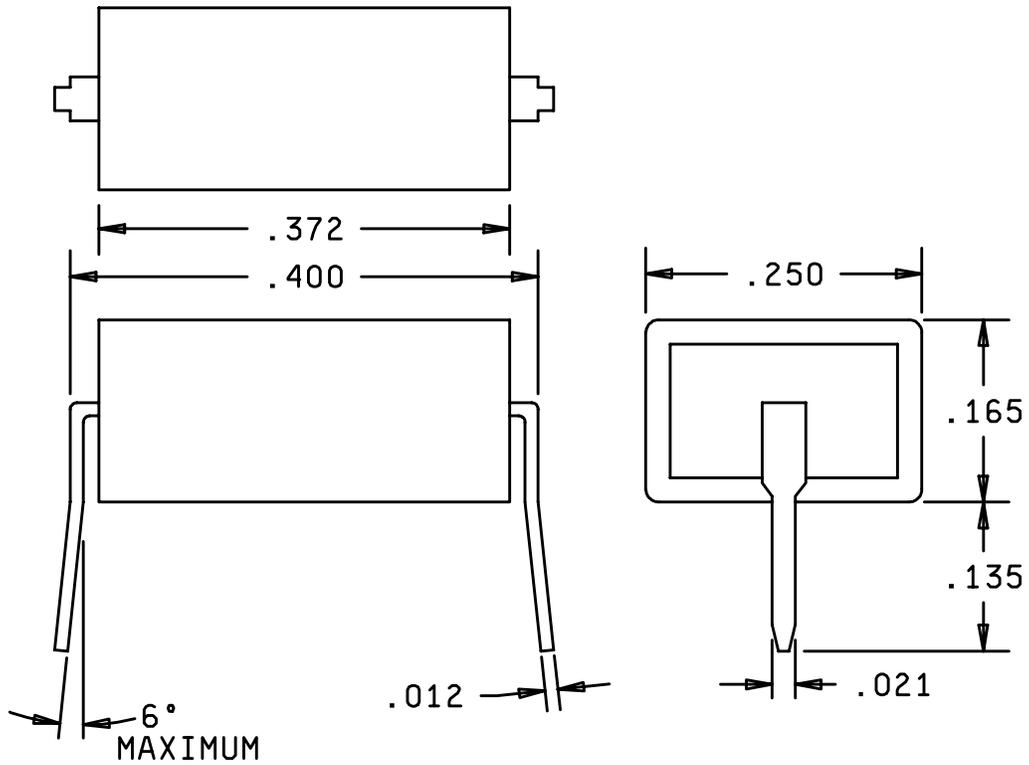
Opening time characteristics. The opening time characteristics shall be as indicated in table II.

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

Flammability rating. The fuse body shall be thermoplastic with UL 94V/O flammability rating as a minimum.

Leads. Leads shall be bright alloy plated beryllium copper.

Cleaning. Fuses shall be board washable in most common solvents.



DIP CONFIGURATION
(THRU-HOLE) MOUNTING

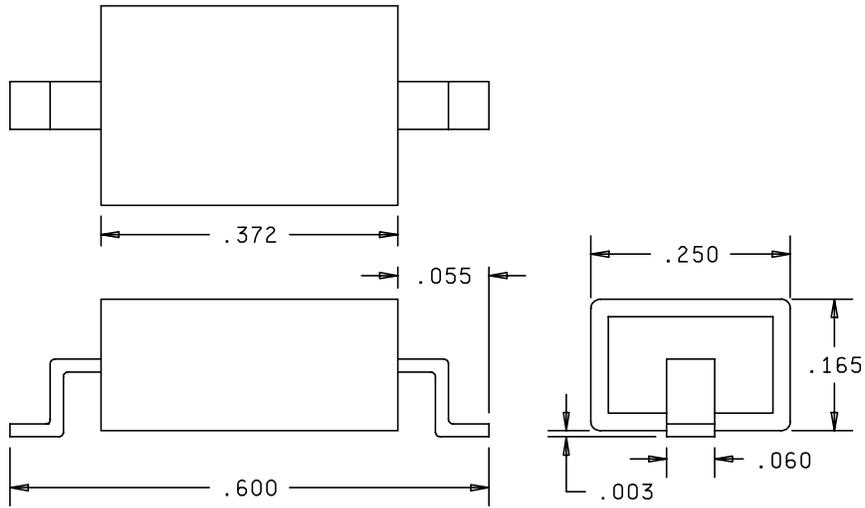
CONFIGURATION D

Inches	mm
.012	0.30
.021	0.53
.135	3.43
.165	4.19
.250	6.35
.372	9.45
.400	10.16

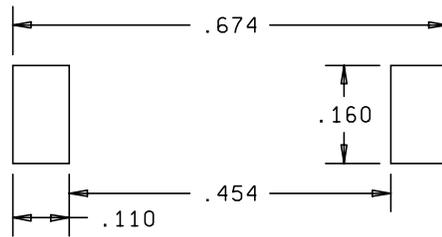
NOTES:

1. Dimensions are in inches.
2. Tolerance is ± 0.005 inch (0.13 mm), unless otherwise specified.

FIGURE 1. Configuration and dimensions.



SMF CONFIGURATION
("GULL WING" SURFACE MOUNT)



RECOMMENDED PAD LAYOUT
CONFIGURATION S

Inches	mm	Inches	mm
.003	0.08	.250	6.35
.055	1.40	.372	9.45
.060	1.52	.454	11.53
.110	2.79	.600	15.24
.160	4.06	.674	17.12
.165	4.19		

NOTES:

1. Dimensions are in inches.
2. Tolerance is ± 0.005 inch (0.13 mm), unless otherwise specified.

FIGURE 2. Configuration and dimensions.

TABLE I. Electrical characteristics.

CID dash number AA55561/1-	Configuration	Ampere rating	Nominal resistance cold ohms	Nominal melting I^2t A ² second
001D	D	0.0625	7.90	0.000220
001S	S			
002D	D	0.125	2.45	0.00180
002S	S			
003D	D	0.25	0.880	0.0147
003S	S			
004D	D	0.5	0.298	0.0363
004S	S			
005D	D	0.75	0.166	0.0980
005S	S			
006D	D	1.0	0.119	0.192
006S	S			
007D	D	1.5	0.0701	0.540
007S	S			
008D	D	2.0	0.0469	1.07
008S	S			
009D	D	2.5	0.0455	1.76
009S	S			
010D	D	3.0	0.0327	1.71
010S	S			
011D	D	4.0	0.0244	3.00
011S	S			
012D	D	5.0	0.0174	4.68
012S	S			

TABLE II. Opening time characteristics.

Percent of ampere rating	Opening time
100 percent	4 hours, minimum
200 percent	2 seconds maximum

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 3 seconds maximum, and an infrared solder of +420°F (+215°C) for 30 seconds maximum.

Marking. Fuses supplied to this CID shall be marked with the manufacturer's (MFR's) standard commercial PIN.

PACKAGING. Packaging shall be as specified in A-A-55561. In addition, DIP fuses may be supplied individually or in a quantity of 100 on an anti-static magazine. Surface mount fuses may be supplied individually or in a quantity of 500 on a .945 inch (24 millimeter (mm)) wide tape reel in accordance with EIA standard EIA-481.

NOTES.

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

Source of documents.

Non Government Publications

AMERICAN NATIONAL STANDARDS INSTITUTE/ELECTRONICS INDUSTRIES ALLIANCE
(ANSI/EIA)

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

(Applications for copies should be addressed to the American National Standards Institute, 11 West 42nd Street, New York, NY 10036-8002.)

UNDERWRITERS LABORATORIES, INCORPORATED (UL)

UL 94 - Safety Tests for Flammability of Plastic Materials for Parts in Devices and Appliances, Standard For.

(Applications for copies should be addressed to the Underwriters Laboratories, Incorporated, 333 Pfingsten Road, Northbrook, IL 60062-2096.)

(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 II. P/N supersession data.

CID dash number AA55561/1- (see table I)	MFR's CAGE 75915	CID dash number AA55561/1- (see table I)	MFR's CAGE 75915
	MFR's P/N <u>1/</u>		MFR's P/N <u>1/</u>
001D	202.062	007D	20201.5
001S	202.062G	007S	20201.5G
002D	202.125	008D	202002
002S	202.125G	008S	202002G
003D	202.250	009D	20202.5
003S	202.250G	009S	20202.5G
004D	202.500	010D	202003
004S	202.500G	010S	202003G
005D	202.750	011D	202004
005S	202.750G	011S	202004G
006D	202001	012D	202005
006S	202001G	012S	202005G

1/ The manufacturer's P/N 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 P/N 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 II. NSN's.

Dash number (see table I) AA55561/1-	NSN
008D	5920-01-296-3486

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - 7FXE

Preparing Activity:

DLA-CC

Project 5920-D243-01