

[INCH-POUND]
A-A-55564/2B
30 August 2012
SUPERSEDING
A-A-55564/2A
15 February 2002

COMMERCIAL ITEM DESCRIPTION

RESISTOR, VOLTAGE SENSITIVE (VARISTOR), METAL OXIDE, HIGH ENERGY

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

Inactive for new design
after 30 March 2008

Parts manufactured prior to the above date
may only be used for replacement purposes.

Parts manufactured after above date
shall not be supplied to this CID.

The complete requirements for procuring the transient voltage suppression device, heavy duty, metal oxide described herein shall consist of this document and the issue in effect of CID A-A-55564.

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

<u>AA55564</u>	<u>02</u>	-	<u>001</u>
Abbreviated CID number	Applicable CID sheet (two digits)		Dash number (see applicable CID sheet)

SALIENT CHARACTERISTICS

Interface and physical dimensions. The varistors supplied to this CID shall meet the interface and physical dimensions as specified herein (see figure 1 for dash numbers 001 through 011, and see figure 2 for dash numbers 012 through 022).

Power rating. The power rating for the varistor shall be 2.0 watt.

Voltage rating. The voltage rating shall be as specified in table I.

Energy rating. The energy rating shall be as specified in table I.

Comments, suggestions, or questions on this document should be addressed to: DLA Land and Maritime, ATTN: VAT, Post Office Box 3990, Columbus, Ohio 43218-3990 or by email Resistor@dla.mil. Since contact information can change, you may want to verify the currency of this address information using the ASSIST Online database at <https://assist.dla.mil/>.

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Peak current. The peak current shall be as specified in table I.

Clamping voltage. The clamping voltage shall be as specified in table I.

Capacitance. The capacitance shall be as specified in table I.

Operating ambient temperature. The operating ambient temperature range shall be -55°C to $+85^{\circ}\text{C}$.

Storage temperature. The storage temperature shall be -55°C to $+125^{\circ}\text{C}$.

Marking. Varistors supplied to this CID shall be marked with the manufacturer's standard commercial PIN.

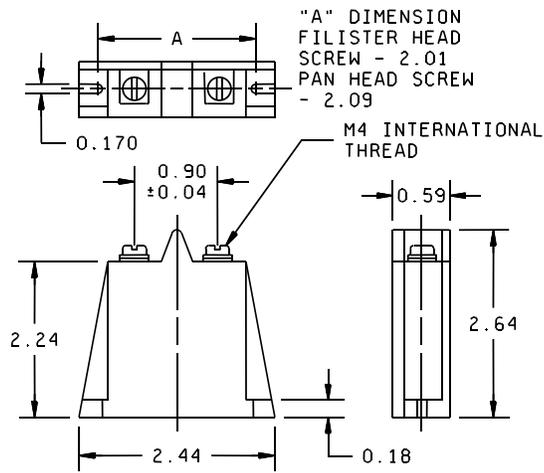


FIGURE 1. Dash numbers 001 through 011.

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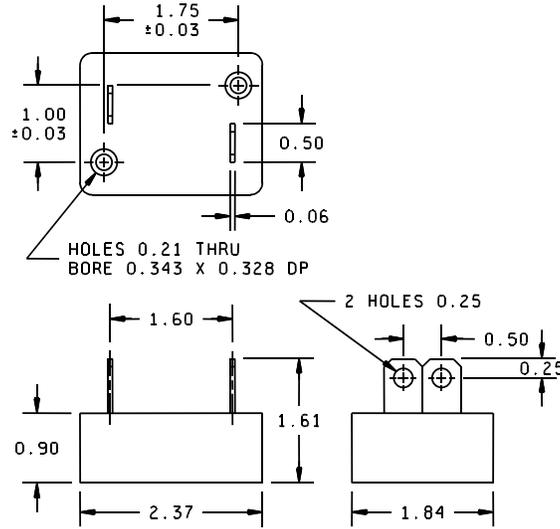


FIGURE 2. Dash numbers 012 through 022.

TABLE I. Rating and characteristics.

CID dash number	Voltage rating (max)		Energy (max) (Joules)	Peak current	Nominal varistor voltage (V)	Max clamping voltage at test current		Typical capacitance (picofarads)
	(rms)	(dc)				(V)	(I)	
001	130	175	270	30,000	200 +28 -16	345	200	10000
002	150	200	300	30,000	240 +28 -28	405		8000
003	250	330	370	30,000	390 +39 -36	650		5000
004	275	369	400	30,000	430 +43 -41	730		4500
005	320	420	460	30,000	510 +29 -48	830		3800
006	420	560	600	40,000	680 +68 -70	1130		3000
007	480	640	650	40,000	750 +75 -80	1240		2700
008	510	675	700	40,000	820 +90 -85	1350		2500
009	575	730	770	40,000	910 +90 -105	1480		2200
010	660	850	900	40,000	1050 +110 -110	1720		2000
011	750	970	1050	40,000	1200 +120 -120	2000		1800
012	130	175	270	30,000	200 +28 -16	345		10000
013	150	200	300	30,000	240 +28 -28	405		8000
014	250	330	370	30,000	390 +39 -36	650		5000
015	275	369	400	30,000	430 +43 -41	730		4500
016	320	420	460	30,000	510 +29 -48	830		3800
017	420	560	600	40,000	680 +68 -70	1130		3000
018	480	640	650	40,000	750 +75 -80	1240		2700
019	510	675	700	40,000	820 +90 -85	1350		2500
020	575	730	770	40,000	910 +90 -105	1480		2200
021	660	850	900	40,000	1050 +110 -110	1720		2000
022	750	970	1050	40,000	1200 +120 -120	2000		1800

NOTES.

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

Commercial and Government Entity (CAGE) code. For ordering purposes, inventory control, and submission of these resistors to DSCC under the Military Parts Control Advisory Group (MPCAG) evaluation program, CAGE code 58536 should be used.

Source of documents.

Commercial Item Description

A-A-55564 - Resistor, Voltage Sensitive (Varistor).

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

Ordering data. Ordering data is as specified in A-A-55564.

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).

TABLE II. Commercial products.

MFR's CAGE	MFR's name and address
S6019 <u>1/</u>	<u>Sales:</u> Littelfuse, Inc. 8755 West Higgins Road Suite 500 Chicago, IL 60631 Phone: (773) 628.1000 Website: http://www.littelfuse.com <u>Plant:</u> Littelfuse, Inc. The Demesne Dundalk, County Louth Republic of Ireland

1/ Parts manufactured prior to 30 March 2008 may only be used for replacement purposes. Parts manufactured after 30 March 2008 shall not be supplied to this CID.

Part number (P/N) supersession data. These CID P/N 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 III. P/N supersession data.

CID dash number AA5556402-	MFR's P/N <u>1/</u> <u>2/</u>		CID dash number AA5556402-	MFR's P/N <u>1/</u> <u>2/</u>	MFR's CAGE
001	V131DA40		012	V131DB40	S6019
002	V151DA40		013	V151DB40	
003	V251DA40		014	V251DB40	
004	V271DA40		015	V271DB40	
005	V321DA40		016	V321DB40	
006	V421DA40		017	V421DB40	
007	V481DA40		018	V481DB40	
008	V511DA40		019	V511DB40	
009	V571DA40		020	V571DB40	
010	V661DA40		021	V661DB40	
011	V751DA40		022	V751DB40	

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 PIN shown. For actual part marking requirements, see the marking paragraph.

2/ Parts manufactured prior to 30 March 2008 may only be used for replacement purposes. Parts manufactured after 30 March 2008 shall not be supplied to this CID.

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 DLA Land and Maritime office listed in A-A-55564.

TABLE IV. NSN's.

Dash number (see table I) AA5556402	NSN
-012	5905-01-412-9927

Government users. To acquire information on obtaining these resistors from the Government inventory system, contact DLA Land and Maritime, ATTN: FMX, Post Office Box 3990, Columbus, OH 43216-5000, or telephone (614) 692-3677.

Changes from previous issue. The margins of this CID are marked with vertical lines 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.

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MILITARY INTERESTS:

Custodians:
Navy - EC
DLA - CC

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - FAS

Preparing Activity:

DLA - CC

Project 5905-2012-051

NOTE: The activities listed above were interested in this document as 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.dla.mil>.