

[INCH-POUND]
A-A-55564/2A
15 February 2002
SUPERSEDING
A-A-55564/2
28 November 1995

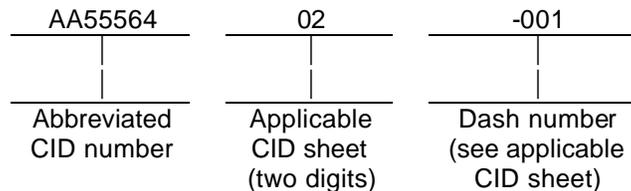
COMMERCIAL ITEM DESCRIPTION

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.

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).



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.

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°C.

Beneficial comments, recommendations, additions, clarifications, etc., and any data which may improve this document should be sent to: Defense Supply Center, Columbus, ATTN: DSCC-VAT, Post Office Box 3990, Columbus, OH 43216-5000, or telephone (614) 692-0552, or facsimile (FAX) (614) 692-6939.

AMSC N/A

FSC 5905

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

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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.

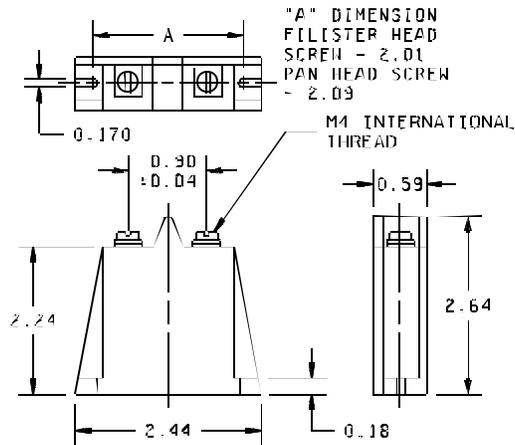


FIGURE 1. Dash numbers 001 through 011.

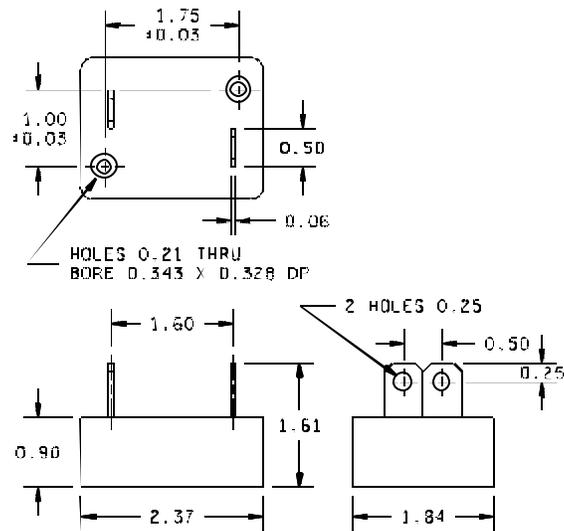


FIGURE 2. Dash numbers 012 through 022.

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	200	8000
003	250	330	370	30,000	390 +39 -36	650	200	5000
004	275	369	400	30,000	430 +43 -41	730	200	4500
005	320	420	460	30,000	510 +29 -48	830	200	3800
006	420	560	600	40,000	680 +68 -70	1130	200	3000
007	480	640	650	40,000	750 +75 -80	1240	200	2700
008	510	675	700	40,000	820 +90 -85	1350	200	2500
009	575	730	770	40,000	910 +90 -105	1480	200	2200
010	660	850	900	40,000	1050 +110 -110	1720	200	2000
011	750	970	1050	40,000	1200 +120 -120	2000	200	1800
012	130	175	2700	30,000	200 +28 -16	345	200	10000
013	150	200	300	30,000	240 +28 -28	405	200	8000
014	250	330	370	30,000	390 +39 -36	650	200	5000
015	275	369	400	30,000	430 +43 -41	730	200	4500
016	320	420	460	30,000	510 +29 -48	830	200	3800
017	420	560	600	40,000	680 +68 -70	1130	200	3000
018	480	640	650	40,000	750 +75 -80	1240	200	2700
019	510	675	700	40,000	820 +90 -85	1350	200	2500
020	575	730	770	40,000	910 +90 -105	1480	200	2200
021	660	850	900	40,000	1050 +110 -110	1720	200	2000
022	750	970	1050	40,000	1200 +120 -120	2000	200	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 federal specifications and standards are available from the Document Automation and Production Service, Building 4D, (DPM-DODSSP), 700 Robbins Avenue, 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.

CID PIN	MFR's CAGE	MFR's name and address
AA5556402-***	S6019	<u>Sales:</u> Littelfuse, Inc. 800 E. Northwest Highway Des Plaines, IL 60016 <u>Plant:</u> Littelfuse, Inc. The Demesne Dundalk, County Louth Republic of Ireland

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 CAGE	MFR's P/N ^{1/}	CID dash number AA5556402-	MFR's CAGE	MFR's P/N ^{1/}
001	S6019	V131DA40	012	S6019	V131DB40
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.

Government users. To acquire information on obtaining these resistors from the Government inventory system, Defense Supply Center, Columbus, ATTN: DSCC-CPB, Post Office Box 3990, Columbus, OH 43216-5000, or telephone (614) 692-7678.

MILITARY INTERESTS:

Custodians:
Navy - EC
DLA - CC

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - 7FXE

Preparing activity:

DLA - CC

Project 5905-1640-02