

[INCH-POUND]  
A-A-55564/1A  
15 February 2002  
SUPERSEDING  
A-A-55564/1  
6 October 1995

## COMMERCIAL ITEM DESCRIPTION

### RESISTOR, VOLTAGE SENSITIVE (VARISTOR), BASE MOUNT

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, base mount described within 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).

AA55564	01	-001
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 be as specified herein (see figure 1).

Power rating. The power rating for the varistor shall be 1.0 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.

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

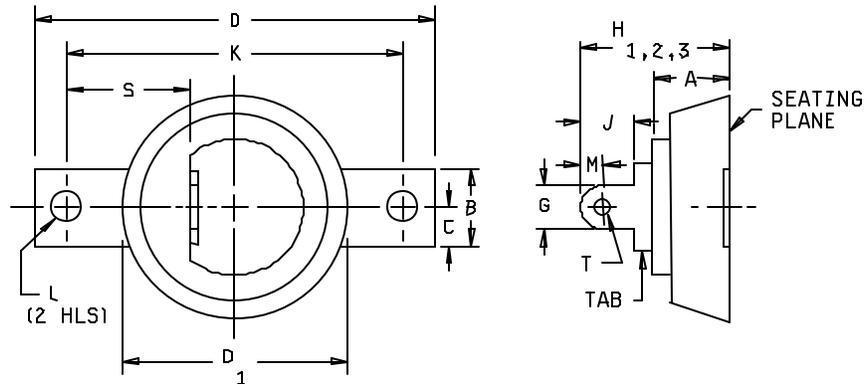
Operating ambient temperature. The operating ambient temperature range shall be -55°C to +85°C.

Storage temperature. The storage temperature shall be -55°C to +125°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.

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

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



Dimensions					
Symbol	Inches		Millimeters		Notes
	Min	Max	Min	Max	
A		0.57		14.5	
B	0.498	0.508	12.5	12.90	
C		0.26		6.6	
D		2.61		66.3	
D <sub>1</sub>		1.32		33.5	
G	0.248	0.260	6.30	6.60	3
H <sub>1</sub>		1.01		25.7	4
H <sub>2</sub>		1.12		28.4	4
H <sub>3</sub>		1.29		32.8	4
J		0.32		8.1	
K	1.99	2.01	50.5	51.1	
L	0.22	0.24	5.6	6.1	
M	0.155	0.165	3.94	4.19	
S	0.72	0.78	18.3	19.8	
T	0.118	0.122	3.00	3.10	

NOTES:

1. Dimensions are in millimeters.
2. Inch equivalents are given for general information only.
3. Tab is designed to fit .25 inch quick connect terminal.
4. H<sub>1</sub> (130-150 V rms devices).  
 H<sub>2</sub> (250-320 V rms devices).  
 H<sub>3</sub> (420-660 V rms devices).

FIGURE 1. Case dimensions and configuration.

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 (I)		Typical capacitance (picofarads)
	(rms)	(dc)				(V)	(I)	
001	130	175	70	6500	200 +43 -16	360	100	1900
002	130	175	70	6500	200 +20 -16	325	100	1900
003	150	200	80	6500	240 +44 -28	420	100	1600
004	150	200	80	6500	240 + 3 -28	360	100	1600
005	250	330	130	6500	390 +63 -36	675	100	1000
006	250	330	130	6500	390 +23 -36	620	100	1000
007	275	369	140	6500	430 +64 -41	740	100	900
008	275	369	140	6500	430 +23 -41	680	100	900
009	320	420	160	6500	510 +55 -48	850	100	750
010	320	420	160	6500	510 +30 -48	800	100	750
011	420	560	170	6500	680+110 -70	1160	100	600
012	420	560	170	6500	680 +10 -70	1050	100	600
013	480	640	180	6500	750+110 -80	1280	100	550
014	480	640	180	6500	750 +40 -80	1160	100	550
015	510	675	190	6500	820+143 -85	1410	100	500
016	510	675	190	6500	820 +40 -85	1280	100	500
017	575	730	220	6500	910+140 -105	1560	100	450
018	575	730	220	6500	910 +50 -105	1410	100	450
019	660	850	250	6500	1050+160 -110	1820	100	400
020	660	850	250	6500	1050 +50 -110	1650	100	400

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
AA5556401-***	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 AA5556401-	MFR's CAGE	MFR's P/N <sup>1/</sup>	CID dash number AA5556401-	MFR's CAGE	MFR's P/N <sup>1/</sup>
001	S6019	V130PA20A	011	S6019	V420PA40A
002		V130PA20C	012		V420PA40C
003		V150PA20A	013		V480PA80A
004		V150PA20C	014		V480PA80C
005		V250PA40A	015		V510PA80A
006		V250PA40C	016		V510PA80C
007		V275PA40A	017		V575PA80A
008		V275PA40C	018		V575PA80C
009		V320PA40A	019		V660PA100A
010		V320PA40C	020		V660PA100C

<sup>1/</sup> The manufacturers 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.

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 5905-1640-01