

[INCH-POUND]  
A-A-55564/1B  
30 August 2012  
SUPERSEDING  
A-A-55564/1A  
15 February 2002

## 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.

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, 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).

<u>AA55564</u>	<u>01</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 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.

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](mailto: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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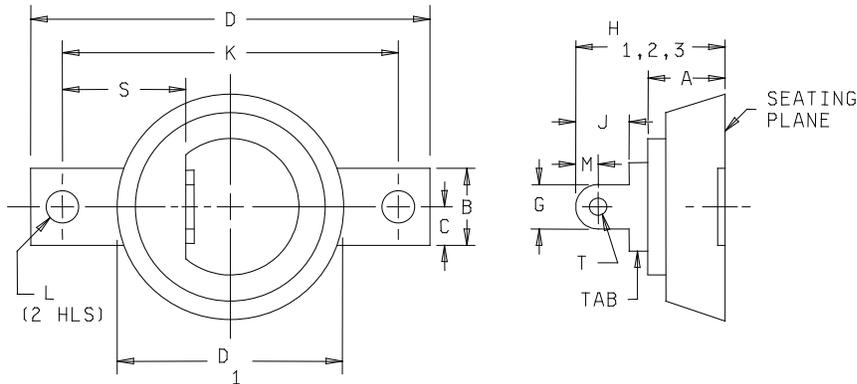
Capacitance. The capacitance shall be as specified in table I.

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

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

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.

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TABLE I. Rating and characteristics.

CID dash number	Nominal varistor voltage			Max clamping voltage at test current		Voltage rating (max)		Typical capacitance (picofarads)	Energy (max) (Joules)	Peak current
	(V)	(V)	(I)	(rms)	(dc)					
001	200	+43	-16	360	100	6500	130	175	1900	70
002	200	+20	-16	325						
003	240	+44	-28	420						
004	240	+3	-28	360						
005	390	+63	-36	675						
006	390	+23	-36	620						
007	430	+64	-41	740						
008	430	+23	-41	680						
009	510	+55	-48	850						
010	510	+30	-48	800						
011	680	+110	-70	1160						
012	680	+10	-70	1050						
013	750	+110	-80	1280						
014	750	+40	-80	1160						
015	820	+143	-85	1410						
016	820	+40	-85	1280						
017	910	+140	-105	1560						
018	910	+50	-105	1410						
019	1050	+160	-110	1820						
020	1050	+50	-110	1650						

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>	<p><u>Sales:</u>                  Littelfuse, Inc.                  8755 West Higgins Road                  Suite 500                  Chicago, IL 60631                  Phone: (773) 628.1000                  Website: <a href="http://www.littelfuse.com">http://www.littelfuse.com</a></p> <p><u>Plant:</u>                  Littelfuse, Inc.                  The Demesne                  Dundalk, County Louth                  Republic of Ireland</p>

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 AA5556401-	MFR's P/N <u>1/</u> <u>2/</u>	CID dash number AA5556401-	MFR's P/N <u>1/</u> <u>2/</u>	MFR's CAGE
001	V130PA20A	011	V420PA40A	S6019
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	

1/ 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.

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). Not applicable

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.

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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.

Custodians:  
Navy - EC  
DLA - CC

GSA - FAS  
Preparing Activity:  
DLA - CC  
Project 5905-2012-050

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>.