

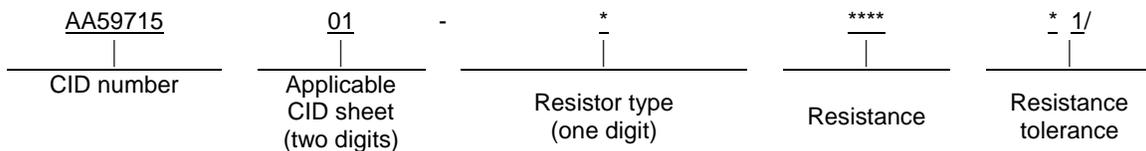
COMMERCIAL ITEM DESCRIPTION

RESISTOR, FIXED, WIREWOUND,  
POWER TYPE, LEAD TERMINAL

The General Services Administration has authorized the use of this Commercial Item Description (CID) for all federal agencies.

The complete requirements for procuring fixed wirewound power type resistor described herein shall consist of this document and the issue in effect of CID [A-A-59715](#).

CLASSIFICATION OR PART IDENTIFICATION NUMBER (PIN). This commercial item description (CID) specification sheet uses a classification system which is included in the PIN as shown in the following example (see NOTES).



1/ Resistance tolerance is based on resistance values.

SALIENT CHARACTERISTICS.

Interface and physical dimensions. The resistors supplied to this CID shall meet the interface and physical dimensions as specified herein (see figure 1).

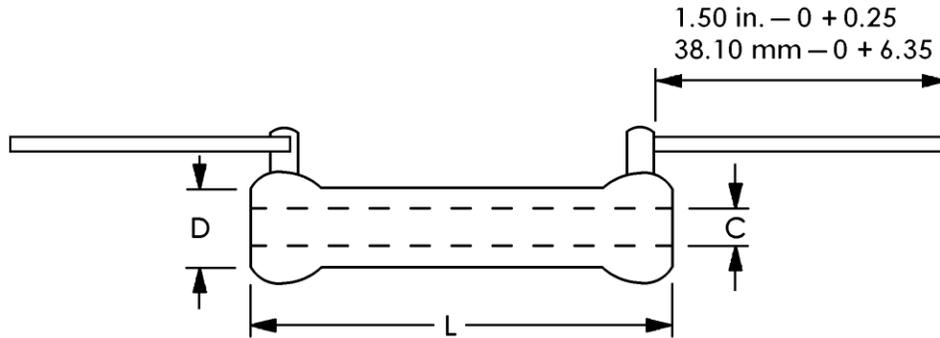
Resistor type. Designates the type and power rating of each resistor (see table 1).

Table 1 Resistor type.

Designation	Wattage (25°C)	Resistance range (in ohms)
A	5.25	0.10 to 20,000
B	8.00	0.03 to 25,000
C	12.00	0.08 to 51,000
D	20.00	0.10 to 100,000

Beneficial comments, recommendations, additions, deletions, clarifications, etc., and any data that may improve this document should be sent to: DLA Land and Maritime, ATTN: VAT, Post Office Box 3990, Columbus, OH 43218-3990, or emailed to [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>.





Designation	Dimensions			
	C	D	L	Lead gauge
A	0.135	0.250	0.625	20
B	0.188	0.313	1.000	18
C	0.188	0.313	1.750	18
D	0.250	0.438	2.000	18

<u>Inches</u>	<u>mm</u>	<u>Inches</u>	<u>mm</u>	<u>Inches</u>	<u>mm</u>
0.135	3.43	0.313	7.95	1.000	25.40
0.188	4.78	0.438	11.13	1.750	44.45
0.250	6.35	0.625	15.88	2.000	50.80

NOTES:

1. Dimensions are in Inches.
2. Metric equivalents are given for general information only.

FIGURE 1. Resistor, Fixed.

Resistance. The nominal resistance value expressed in ohms is identified by a four-digit number; the first three digits represent significant figures and the last digit specifies the number of zeros to follow. Resistance values for specific resistors are covered in the individual CID sheets. When the value of resistance is less than 100 ohms, or when fractional values of an ohm is required, the "R" will be substituted for one of the significant digits to represent the decimal point. When the letter "R" is used, succeeding digits of the group represent significant figures. The resistance value designations are shown in table II below.

Table II Designation of resistance values.

Designation	Resistance (in ohms)
R010 to R999 incl.	to 0.999 incl.
1R00 to 9R99 incl.	to 9.99 incl.
10R0 to 99R9 incl.	to 99.9 incl.
1000 to 9990 incl.	0 to 999 incl.
1001 to 9991 incl.	0 to 9,990 incl.
1002 to 9992 incl.	0 to 99,900 incl.
1003	0

Resistance tolerance. The resistance tolerance available is J ( $\pm 5$  percent) for values of 1 ohm and higher or K ( $\pm 10$  percent) for values under 1 ohm.

Power rating. The power rating shall be specified in table I, at 25°C, derated to zero at 350°C.

Temperature coefficient of resistance (TCR). The temperature coefficient of resistance (TCR) is as follows:

<u>Resistance</u>	<u>TCR (ppm/°C)</u>
5 ohms and under	$\pm 400$
Above 5 ohms	$\pm 260$

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

REGULATORY REQUIREMENTS. This section is not applicable to this CID sheet.

PRODUCT CONFORMANCE PROVISIONS. Product conformance provisions shall be as specified in [A-A-59715](#).

PACKAGING. Packaging shall be as specified in [A-A-59715](#).

NOTES.

PIN. The PIN should be used for Government purposes to buy commercial products to this CID specification sheet. See CLASSIFICATION for PIN format example.

Source of documents.

COMMERCIAL ITEM DESCRIPTION

[A-A-59715](#) - Resistors, Fixed and Adjustable, Wire Wound, Power Type, General Requirement for.

(Copies of these documents are available online at <http://quicksearch.dla.mil>).

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 the 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	MFR's name and address
44655	Ohmite Manufacturing Company Ohmite Manufacturing Company 85 W. Algonquin Rd Suite 230 Arlington Heights, IL 60005 Phone: (866) 9-OHMITE Fax: (847) 574-7522 Email: <a href="mailto:sales@ohmite.com">sales@ohmite.com</a> Website: <a href="http://www.ohmite.com/">http://www.ohmite.com/</a>  <u>Plant :</u>  Baja Oriente Calle 8 Esquina Calle Cuarta, S/N Parque Industriial Fondeport el Sauzal Ensenada, Baja California, Mexico, 22760

Part number (P/N) supersession data. This CID specification sheet PINs supersedes the following manufacturers P/N as shown in table III. This information is being provided to assist in reducing proliferation in the Government inventory system.

TABLE III. P/N supersession data.

MFR's CAGE	Designation	MFR's style <u>1/</u>
44655	A	B5*-.****
	B	B8*-.****
	C	B12*-.****
	D	B20*-.****

1/ The manufacturers P/N shall not be used for procurement to the requirements of this CID specification sheet. At the time of preparation of this CID specification sheet, the aforementioned commercial products were reviewed and could be replaced by the CID PIN shown. For actual part marking requirements, see paragraph 3.7 of [A-A-59715](#).

Government users. To acquire information on obtaining these fuses from the Government inventory system, contact DLA Land and Maritime, ATTN: DLA Land and Maritime-FMX, P.O. Box 3990, Columbus, OH 43218-3990, or telephone (614) 692-3677.

National Stock Number. This section is not applicable to this CID specification sheet.

Changes from previous issue. Marginal notations are used in this revision to identify changes with respect to the previous issue due to the extensiveness of the changes.

MILITARY INTERESTS:

Custodians:  
 NAVY - EC  
 DLA - CC

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - 7FXE  
 Preparing activity:  
 DLA - CC  
 Project 5905-2016-009

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>.