

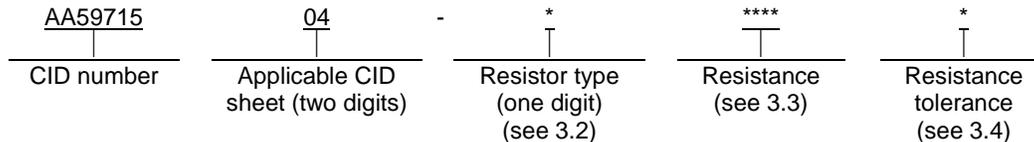
COMMERICAL ITEM DESCRIPTION

RESISTOR, FIXED, WIREWOUND,
POWER TYPE, TAB TERMINALS

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



1/ Resistance tolerance 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.

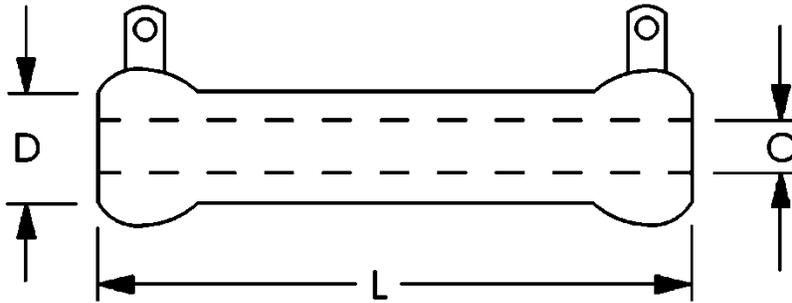
Designation	Wattage (25°C)	Resistance range (in ohms)
A	12	0.10 to 51,000
B	25	0.15 to 100,000
C	50	0.38 to 260,000
D	100	0.23 to 101,000
E	175	0.13 to 101,000
F	225	0.16 to 129,000
G	500	0.38 to 218,000
H	1000	0.69 to 392,000

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. 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>.

AMSC N/A



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.



Designation	Dimensions		
	C	D	L
A	0.188	0.313	1.750
B	0.313	0.562	2.000
C	0.313	0.562	4.000
D	0.500	0.750	6.500
E	0.750	1.125	8.500
F	0.750	1.125	10.500
G	1.750	2.500	12.500
H	1.750	2.500	20.000

Inches	mm	Inches	mm	Inches	mm	Inches	mm
0.188	4.76	0.750	19.10	2.500	63.50	8.500	215.90
0.313	7.94	1.125	28.60	4.000	101.60	10.500	266.70
0.500	12.70	1.750	44.40	6.000	152.40	12.000	304.80
0.562	14.30	2.000	50.80	6.500	165.10	20.000	508.00

NOTES:

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

FIGURE 1. Resistor, Fixed.

Table II Designation of resistance values.

Designation				Resistance (in ohms)			
R100	to	R999	Incl	0.1	to	0.999	incl.
1R00	to	9R99	incl.	1.0	to	9.99	incl.
10R0	to	99R9	incl.	10.0	to	99.9	incl.
1000	to	9990	incl.	100	to	999	incl.
1001	to	9991	incl.	1,000	to	9,990	incl.
1002	to	5004	incl.	10,000	to	50,900	incl.
1003	to	3923	incl.	100,000	to	392,000	incl.

Resistance tolerance. The resistance tolerance available is J (± 5 percent) for values of 1 ohm and higher or K (± 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:

Resistance	TCR (ppm/°C)
5 ohms and under	± 400
Above 5 ohms	± 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](#)

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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 85 W. Algonquin Rd Suite 230 Arlington Heights, IL 60005 Phone: (866) 9-OHMITE Fax: (847) 574-7522 Email: sales@ohmite.com Website: http://www.ohmite.com/ <u>Plant:</u> Baja Oriente Calle 8 Esquina Calle Cuarta, S/N Parque Industriial Fondepport el Sauzal Ensenada, Baja California, Mexico, 22760

Part number (P/N) supersession data. This CID supersedes the following MFR's P/N as shown. This information is being provided to assist in reducing proliferation in the Government inventory system. (see Table III)

TABLE III. P/N supersession data.

MFR's CAGE	Designation	MFR's style ^{1/}
44655	A	L12*-****
	B	L25*-****
	C	L50*-****
	D	L100*-****
	E	L175*-****
	F	L225*-****
	G	L500*-****
	H	L1000*-****

^{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 5905-2016-012

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>.