

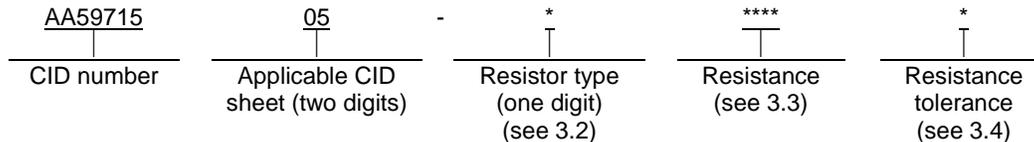
COMMERICAL ITEM DESCRIPTION

RESISTOR, FIXED AND ADJUSTABLE,
WIREWOUND,POWER TYPE

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](#)).



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) | Designation | Wattage (25°C) |
|-------------|----------------|-----------------|----------------|
| A | 35 | L | 220 |
| B | 90 | M | 270 |
| C | 100 | N | 300 |
| D | 110 | P ^{1/} | 300 |
| E | 135 | R | 375 |
| F | 150 | S | 500 |
| G | 160 | T | 750 |
| H | 180 | U | 1000 |
| J | 190 | V | 1500 |
| K | 215 | | |

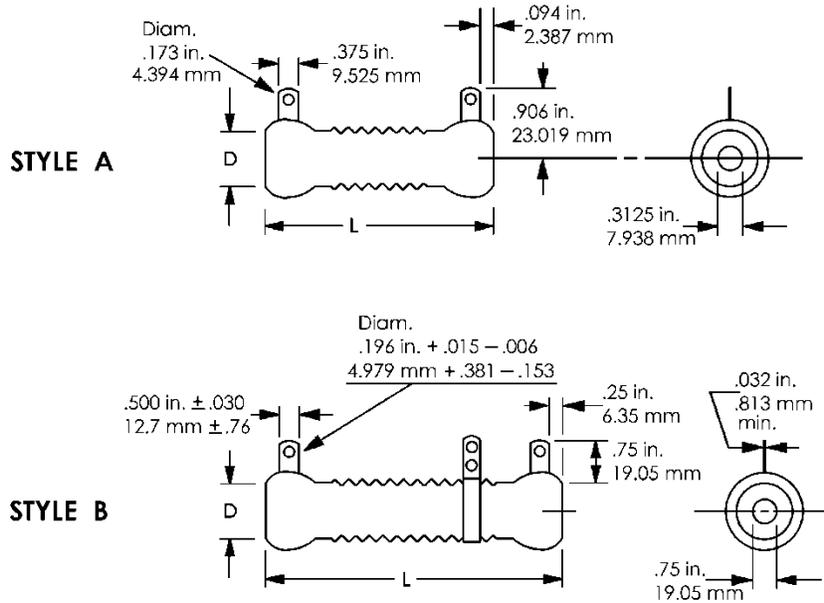
^{1/} Adjustable type

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



A-A-59715/5A



| Designation | Style | Dimensions | | Designation | Style | Dimensions | |
|-------------|-------|------------|-------|-------------------------------|-------|------------|--------|
| | | D | L | | | D | L |
| A | A | 0.563 | 2.000 | L | A | 1.125 | 6.000 |
| B | A | 0.563 | 4.000 | M | A | 1.500 | 5.000 |
| C | A | 0.750 | 3.500 | N ^{1/} | B | 1.125 | 8.500 |
| D | A | 0.563 | 5.000 | P ^{1/} ^{2/} | B | 1.125 | 8.500 |
| E | A | 0.563 | 6.000 | R | A | 1.125 | 10.500 |
| F | A | 1.000 | 5.000 | S | A | 1.625 | 10.500 |
| G | A | 0.750 | 6.000 | T | A | 2.500 | 12.000 |
| H | A | 0.750 | 6.500 | U | A | 2.500 | 15.000 |
| J | A | 1.000 | 6.000 | V | A | 2.500 | 20.000 |
| K | A | 1.000 | 7.000 | | | | |

^{1/} For values over 16 ohms, terminal dimensions are the same as style A.

^{2/} Adjustable type

| Inches | mm | Inches | mm | Inches | mm | Inches | mm | Inches | mm |
|--------|-------|--------|-------|--------|--------|--------|--------|--------|--------|
| 0.563 | 14.30 | 1.500 | 38.10 | 3.500 | 88.90 | 6.500 | 165.10 | 12.000 | 304.80 |
| 0.750 | 19.05 | 1.625 | 41.28 | 4.000 | 101.60 | 7.000 | 177.80 | 15.000 | 381.00 |
| 1.000 | 25.40 | 2.000 | 50.80 | 5.000 | 127.00 | 8.500 | 215.90 | 20.000 | 508.00 |
| 1.125 | 28.58 | 2.500 | 63.50 | 6.000 | 152.40 | 10.500 | 266.70 | | |

NOTES:

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

FIGURE 1. Resistor, Fixed and Adjustable.

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) |
|--------------------|-------------------------|
| 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. |

Resistance tolerance. The resistance tolerance available is K (± 10 percent).

Power rating. The power rating shall be specified in table I, at 25°C, derated to zero at 4000°C

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

| | |
|-------------------|---------------------|
| <u>Resistance</u> | <u>TCR (ppm/°C)</u> |
| All Values | ± 400 |

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 Industriiil Fondeport 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/ | MFR's CAGE | Designation | MFR's style 1/ |
|------------|-------------|----------------|------------|-------------|----------------|
| 44655 | A | C35K-*** | 44655 | L | C220K-*** |
| | B | C90K-*** | | M | C270K-*** |
| | C | C100K-*** | | N | C300K-*** |
| | D | C110K-*** | | P | E300K-*** |
| | E | C135K-*** | | R | C375K-*** |
| | F | C150K-*** | | S | C500K-*** |
| | G | C160K-*** | | T | C750K-*** |
| | H | C180K-*** | | U | C1000K-*** |
| | J | C190K-*** | | V | C1500K-*** |
| | K | C215K-*** | | | |

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 5905-2016-013

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>.