

[INCH-POUND]
A-A-55502D
22 May 2014
SUPERSEDING
A-A-55502C
12 October 2007

COMMERCIAL ITEM DESCRIPTION

RESISTOR, FIXED, ZERO OHM, 1/8 WATT

The General Services Administration has authorized the use of this commercial item description (CID) for all federal agencies

1. **SCOPE.** This CID covers the general requirements for axial leaded zero ohm resistors. Resistors covered by this CID are intended for commercial/industrial applications and are not to be used in military systems needing stringent environmental and electrical requirements.

2. **CLASSIFICATION/PART OR IDENTIFICATION NUMBER (PIN).** This CID uses a classification system which is included in the PIN as shown in the following example (see 7.1).

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|

CID Number

3. SALIENT CHARACTERISTICS.

3.1 Interface and physical dimensions. Resistors supplied to this CID shall be as specified herein (see figure 1).

3.2 DC resistance. The resistance value shall not exceed 0.01 ohm.

3.3 Insulation resistance. The insulation resistance value of this resistor shall be 10,000 megohms minimum.

3.4 Current rating. The current rating shall be 5 amperes maximum.

3.5 Dielectric withstanding voltage. The dielectric with standing voltage shall be 450 volts minimum.

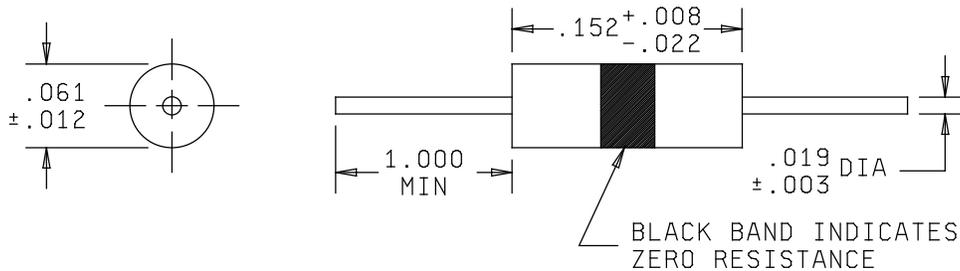
* 3.6 Pure tin. The use of pure tin, as an underplate or final finish is prohibited both internally and externally. Tin content of resistor components and solder shall not exceed 97 percent, by mass. Tin shall be alloyed with a minimum of 3 percent lead, by mass.

3.7 Marking. Resistors supplied to this CID shall be marked with the manufacturer's (MFR's) standard commercial PIN (NOTE: The part number marked on the unit pack shall be the CID PIN).

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, P.O. Box 3990, Columbus, OH 43218-3990, or email Resistors@dla.mil. Since contact information can change, you may want to verify the currency of the address information using the ASSIST Online database at <https://assist.dla.mil>.

* 3.8 Recycled, recovered, environmentally preferable, or biobased materials. Recycled, recovered, environmentally preferable, or biobased materials should be used to the maximum extent possible provided that the material meets or exceeds the operational and maintenance requirements, and promotes economically advantageous life cycle costs.

3.9 Workmanship. Resistors shall be processed in such a manner as to be uniform in quality and shall be free from other defects that will affect life, serviceability, or appearance.



Inches	mm
.003	0.08
.008	0.20
.012	0.30
.019	0.48
.022	0.56
.061	1.55
.152	3.86
1.000	25.4

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is $\pm .005$ inch (± 0.13 mm).

Figure 1. Resistors, fixed, zero ohm.

4. **REGULATORY REQUIREMENTS.** The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with [23.403 of the Federal Acquisition Regulation \(FAR\)](#).

5. **PRODUCT CONFORMANCE PROVISIONS.**

5.1 Product conformance. The products provided shall meet the salient characteristics of this CID, conform to the producer's own drawings, specifications, standards, and quality assurance practices, and be the same product offered for sale in the commercial market. The Government reserves the right to require proof of such conformance.

6. **PACKAGING.** Preservation, packing, and marking shall be specified in the contract or order.

7. NOTES

7.1 PIN. The PIN should be used for Government purposes to buy commercial products to this CID. See [section 2](#) for PIN format example.

- * 7.2 Environmentally preferable material. Environmentally preferable materials should be used to the maximum extent possible to meet the requirements of this specification. As of the date of this document, the U.S. Environmental Protection Agency (EPA) is focusing efforts on reducing 31 priority chemicals. The list of chemicals and additional information is available on their website at <http://www.epa.gov/osw/hazard/wastemin/priority.htm>. Included in the EPA list of 31 priority chemicals are cadmium, lead, and mercury. Use of the materials on the list should be minimized or eliminated unless needed to meet the requirements specified herein (see [Section 3](#)).
- * 7.3 Commercial and Government Entity (CAGE) code. For ordering purposes, inventory control, and submission of these resistors to DLA Land and Maritime under the Military Parts Control Advisory Group (MPCAG) evaluation program, CAGE code 58536 should be used.

7.4 Source of documents.

FEDERAL REGULATIONS

[FAR 23.403](#) - Federal Acquisition Regulation (FAR) – Use of Recovered Materials and Biobased Products.

- * (Copies of these documents are available online at www.acquisition.gov/comp/far/index.html.)

7.5 Ordering data. The contract or order should specify the following:

- a. CID document number, revision, and CID PIN.
- b. Product conformance provisions.
- c. Packaging requirements.

7.6 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.)

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MFR's CAGE

MFR's name and address

56637

RCD Components, INC.
520 East Industrial Park Drive
Manchester, NH 03109-5316
Phone: (603) 669-0054
Fax: (603) 669-5455
Email: sales@rcdcomponents.com
Website: <http://www.rcdcomponents.com>

91637

Vishay Dale
P.O. Box 609
1122 23rd Street
Columbus, NE 68602-0602
Phone: (402) 563-6449
Fax: (402) 563-6252
Email: ff2aresistors@vishay.com
Website: <http://www.vishay.com>

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

TABLE I. P/N supersession data.

CID PIN	MRF's CAGE	MFR's P/N <u>1/</u>	Vendor body color <u>2/</u>	Vendor body style
A-A-55502	56637	ZJ1B Termination Q	Tan	Conformal coated
	91637	FRJ-50-R36	Brown	Conformal coated

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

2/ Body colors are for identification purposes.

* 7.8 Government users. To acquire information on obtaining these resistors from the Government inventory system, contact DLA Land and Maritime, ATTN: CPB, Post Office Box 3990, Columbus, OH 43218-3990, or telephone (614) 692-7678.

* 7.8.1 National Stock Number. Table II is a list of NSN's assigned which correspond to this CID. The list is for information only and may not be indicative of all possible NSN's associated with the CID. For up to date information on assigned NSN's, please contact the aforementioned DLA Land and Maritime office (see [7.8](#))

TABLE II. NSN's.

PIN number	NSN
AA55502	5905-01-454-9987

7.9 Changes from previous issue. The margins of this CID are marked with asterisks 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.

MILITARY INTERESTS:

Custodians:
Navy - EC
DLA - CC

CIVIL AGENCY COORDINATING ACTIVITY

GSA - FAS
Preparing Activity:
DLA - CC

Project 5905-2014-035

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>.