

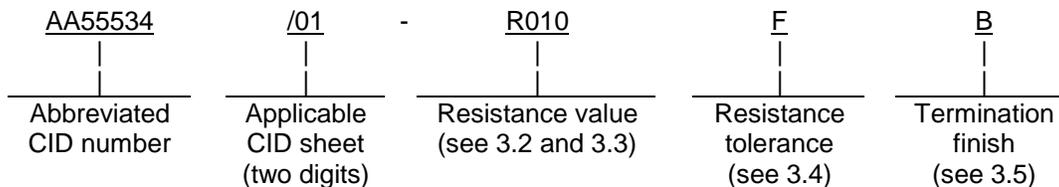
## COMMERCIAL ITEM DESCRIPTION

### RESISTOR, FIXED, POWER TYPE (VERY LOW RESISTANCE VALUES), GENERAL REQUIREMENTS FOR

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 power type, low value (0.9 ohms and below), fixed resistors, wire wound, nonwire wound, or metal element, both leaded and nonleaded devices. These resistors have a +25°C ambient operating temperature derated to zero load at +175°C or +275°C as applicable (see 3.1). Requirements for specific resistors are covered in the individual CID sheets. The resistors covered by this CID are intended for commercial/industrial applications.

2. **CLASSIFICATION.** This CID uses a classification system which is included in the Part Identification Number (PIN) as shown in the following example (see 6.1).



NOTE: This PIN supersedes the PIN from previous revision and includes provisions for termination finish (see 3.5 and 7.5)

### 3. SALIENT CHARACTERISTICS

3.1 Design and construction. The resistors supplied to this CID shall be as specified on the applicable CID sheet.

3.2 Resistance. The nominal resistance is expressed in ohms and is identified by three digits and the letter "R". The letter "R" is used to represent the decimal point. The resistance value designations are shown in table I. It is recommended that the standard resistance values listed in EIA Standard RS-385 be used except that the "H" tolerance ( $\pm 3\%$ ) shall follow the standard values for "J" tolerance ( $\pm 5\%$ ). Where it is not feasible to use the standard values any value shall be acceptable.

Beneficial comments, recommendations, additions, deletions, clarifications, etc., and any data which may improve this document should be sent to: Defense Supply Center, Columbus, ATTN: DSCC-VAT, Post Office Box 3990, Columbus, OH 43216-5000, or telephone (614) 692-0553, or facsimile (FAX) (614) 692-6939.

TABLE I. Designation of resistance values.

Designation	Resistance (ohms)
R005 to R009 inclusive	0.005 to 0.009 inclusive
R010 to R09 inclusive	0.01 to 0.09 inclusive
R100 to R900 inclusive	0.1 to 0.9 inclusive

3.3 Resistance value. The resistance value shall be as specified on the applicable CID sheet.

3.4 Resistance tolerance. The resistance tolerance shall be as specified on the applicable CID sheet.

3.5 Termination finish. The termination finish shall be identified by a single B for tin/lead (Sn/Pb) (3 percent lead minimum) or T (Sn) (100 percent tin).

3.6 Marking. Resistors supplied to this CID shall be marked with the manufacturer's commercial PIN. Marking of individual small devices (e.g. chips) is not required but is permitted; however, each unit pack supplied to this CID shall be marked with the manufacturer's standard commercial PIN.

#### 4. REGULATORY REQUIREMENTS

4.1 Recycled/recovered materials. The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with paragraph 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

6.1 Preservation, packing, and marking. Preservation, packing, and marking shall be as 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 CAGE code. For ordering purposes, inventory control, and submission of these instruments to DSCC under the Military Parts Control Advisory Group (MPCAG) evaluation program, CAGE code 58536 should be used.

7.3 Source of documents.

#### ELECTRONIC INDUSTRIES ASSOCIATION (EIA)

EIA - 385 - Preferred Values

(Applications for copies should be addressed to Electronic Industries Association (EIA), 2500 Wilson Boulevard, Arlington, VA 22201-3834.)

(Industry association specifications and standards are generally available for reference from libraries. They are also distributed among technical groups and using Federal agencies.)

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

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

7.5 PIN supersession. PIN's from the original A-A-55534 have been superseded by a new PIN in revision A that includes a characteristic code for termination finish. Table II illustrates the original PIN and the revised PIN.

TABLE II. PIN supersession.

Original version	New revision A
AA55534*****	AA55534/**-*****B

7.6 Government users. To acquire information on obtaining these resistors from the Government inventory system, contact Defense Supply Center, Columbus, ATTN: DSCC-CPBC, PO Box 3990, Columbus, OH 43216-5000, or telephone (614) 692-7678.

MILITARY INTERESTS:

Custodian  
Navy - EC  
DLA-CC

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - 7FXE  
  
Preparing Activity:  
DLA-CC  
  
Project 5905-1678