

INCH-POUND

MIL-R-93/13E
w/ Amendment 2
24 June 2013
SUPERSEDING
MIL-R-93/13E
w/ Amendment 1
5 April 2007

MILITARY SPECIFICATION SHEET
RESISTORS, FIXED, WIRE WOUND (ACCURATE),
STYLE RB55

INACTIVE FOR NEW DESIGN AFTER 22 NOVEMBER 1968.
USE [MIL-PRF-39005/4](#).

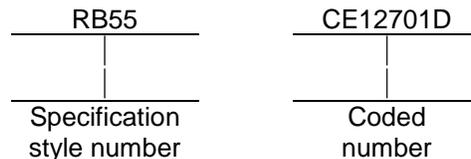
This specification is approved for use by all Departments
and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist
of this specification sheet and [MIL-R-93](#).

1. SCOPE

1.1 Scope. This specification covers the requirements for style RB55, accurate, wire wound, fixed resistors.

1.2 Part or Identifying Number (PIN). Resistors covered by this specification are identified by a PIN which consists of the style of this specification and a coded number. The PIN is in the following form:



2 APPLICABLE DOCUMENTS

- * 2.1 General. The documents listed in this section are specified in sections 3, 4 and 5 of the specification. This section does not include documents cited in other sections of this specification or recommended for additional information or as examples. While every effort has been made to ensure the completeness of this list, document users are cautioned that they must meet all specified requirements documents cited in sections 3, 4 and 5 of this specification, whether or not they are listed.

Comments, suggestions, or questions on this document should be addressed to: DLA Land and Maritime, ATTN: VAT, Post Office Box 3990, Columbus Ohio 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>.

2.2 Government documents.

2.2.1 Specifications, standards, and handbooks. The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those cited in the solicitation or contract.

DEPARTMENT OF DEFENSE SPECIFICATIONS

MIL-R-93 - Resistors, Fixed, Wire Wound, (Accurate), General Specification for

* (Copies of these documents are available online at <http://quicksearch.dla.mil> or from the DLA Document Services, 700 Robbins Avenue, Building 4D, Philadelphia PA 19111-5094.)

* 2.3 Order of precedence. Unless otherwise noted herein or in the contract, in the event of a conflict between the text of this document, and the references cited herein (except for related associated specifications, specification sheets, or MS sheets) the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3. REQUIREMENTS

3.1 General. The requirements for acquiring the product described herein shall consist of this document and MIL-R-93.

3.2 Interface and physical dimensions. Resistors shall meet the interface and physical dimensions specified on [figure 1](#).

3.3 Resistance values and resistance tolerances. The maximum and minimum resistance values and resistance tolerance shall be as specified in table I.

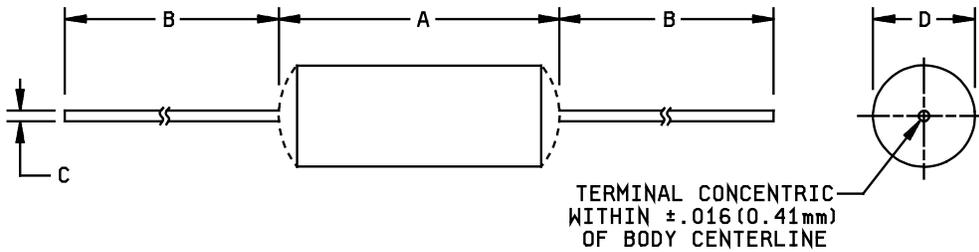
TABLE I. Resistance values and resistance tolerance.

Tolerance (± percent)	Symbol	Minimum resistance (ohms)	Maximum resistance (ohms)
0.05	A	100	0.226 M
0.10	B	10	0.226 M
0.50	D	0.1	0.226 M
1.00	F	0.1	0.226 M

3.4 Power rating. Power rating shall be 0.15 watt.

3.5 Maximum voltage. Maximum voltage shall be 200 volts direct current or peak.

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<u>Dimension</u>	<u>Inches</u>	<u>mm</u>
A	0.500 \pm 0.062	12.70 \pm 1.57
B	2.000 \pm 0.125	50.80 \pm 3.18
C	0.032 \pm 0.002	0.81 \pm 0.05
D	0.250 \pm 0.031	6.35 \pm 0.79

NOTE: Metric equivalents (to the nearest 0.01 mm) are given for general information only.

FIGURE 1. Style RB55.

4. VERIFICATION

4.1 Sampling and inspection. Sampling and inspection shall be in accordance with [MIL-R-93](#).

5. PACKAGING

5.1 Packaging. For acquisition purposes, the packaging requirements shall be as specified in the contract or order (see [6.2](#)). When packaging of materiel is to be performed by DoD or in-house contractor personnel, these personnel need to contact the responsible packaging activity to ascertain packaging requirements. Packaging requirements are maintained by the Inventory Control Point's packaging activities within the Military Service or Defense Agency, or within the military service's system commands. Packaging data retrieval is available from the managing Military Department's or Defense Agency's automated packaging files, CD-ROM products, or by contacting the responsible packaging activity.

6. NOTES

6.1 Intended use. The notes specified in [MIL-R-93](#) are applicable to this specification.

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)

6.2 Acquisition requirements. Acquisition documents must specify the following:

a. Title, number, and date of this specification.

* b. Unless otherwise specified (see [2.1](#)), the versions of the individual documents referenced will be those in effect on the date of release of the solicitation.

c. Packaging requirements (see [5.1](#)).

6.3 Supplementary insulation. Where potential to ground is over 250 volts, supplementary insulation should be provided.

6.4 Substitution data. The resistors specified herein are not for use in design after 22 November 1968. They are authorized for use in design contracts effective prior to or on 22 November 1968, and to support existing military equipment. Resistors specified in [MIL-PRF-39005/4](#) are preferred for design and regardless of the failure rate designation can be used as substitutes for the inactive resistors of the same resistance value and tolerance of this specification.

6.5 Amendment notations. The margins of this specification are marked with asterisks to indicate modifications generated by this amendment. 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.

Custodians:

Army - CR
Navy - EC
Air Force – 85
DLA - CC

Preparing activity:

DLA - CC

Review activities:

Army - AR, AV, CR4, MI
Navy – AS, MC
Air Force - 19, 99

(Project 5905-2013-034)

NOTE: The activities listed above were interested in this document as of 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>.