INCH-POUND
MIL-PRF-39005/2F
8 May 2008
SUPERSEDING
MIL-PRF-39005/2E
9 October 1997

PERFORMANCE SPECIFICATION SHEET

RESISTORS, FIXED, WIRE-WOUND (ACCURATE), NONESTABLISHED RELIABILITY AND ESTABLISHED RELIABILITY STYLE RBR53

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-PRF-39005.

1. SCOPE

1.1 Scope. This specification covers the performance requirements for style RBR53, nonestablished reliability, established reliability, 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 designation, terminal, resistance, resistance tolerance, and product level designator. The PIN is derived in accordance with MIL-PRF-39005 and is in the following form:

RBR53	L	12601	F	S
Style	Terminal	Resistance	Resistance tolerance	Product level designator

2. APPLICABLE DOCUMENTS

2.1 General. The documents listed in this section are specified in sections 3 and 4 of this 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 and 4 of this specification, whether or not they are listed.

2.2 Government documents.

Comments, suggestions, or questions on this document should be addressed to: US Army Communications-Electronics Command and Fort Monmouth, ATTN: AMSEL-LC-LEO-E-EP, Fort Monmouth, NJ 07703-5023 or emailed to Jeffrey.Carver@us.army.mil. Since contact information can change, you may want to verify the currency of this address information using the ASSIST Online database at http://assist.daps.dla.mil.

AMSC N/A FSC 5905
DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

* 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 SPECIFICATION

MIL-PRF-39005 - Resistors, Fixed, Wire-Wound (Accurate), Nonestablished Reliability and Established Reliability, General Specification for.

* (Copies of these documents are available online at http://assist.daps.dla.mil/quicksearch/ or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.)

* 2.3 Order of precedence. Unless otherwise noted herein or in the event of a conflict between the text of this document and the references cited herein (except for related specification 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-PRF-39005.

3.2 Interface and physical dimensions. Resistors shall meet the interface and physical dimensions specified on figure 1.

3.3 Minimum resistance value and applicable tolerance. Minimum resistance value shall be 0.1 ohm for tolerance F (±1.0 percent). For tolerances B, A, Q, T (±.10, ±.05, ±.02, and ±.01 percent, respectively), the minimum resistance value shall be 10 ohms.

3.4 Maximum resistance value. Maximum resistance values and applicable wire sizes shall be as follows:

Nominal wire size (inches) diameter	Absolute diameter	Maximum resistance value (megohms)
.001	.0009	.500
.0009	.00081	.750
.0008	.00072	1.1

3.5 Power rating. Power rating shall be 0.33 watt.

3.6 Maximum voltage. Maximum voltage shall be 300 volts direct current or peak.

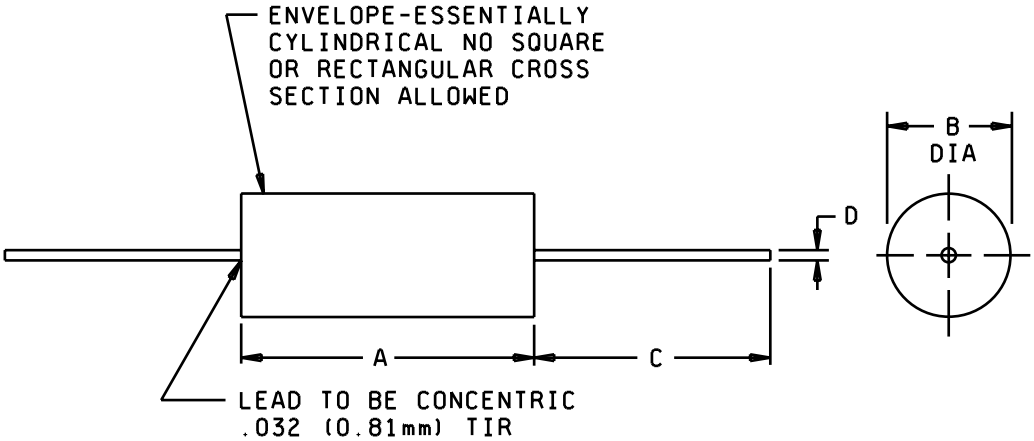
3.7 Maximum weight. The maximum weight shall be 5 grams.

4. VERIFICATION

4.1 Verification. Verification shall be in accordance with MIL-PRF-39005.

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.



Dimension	Inches	Millimeters
A	0.750 +0.020 -0.032	19.05 +0.51 -0.81
B	0.375 ±0.015	9.52 ±0.38
C	1.500 min	38.10 min
D	0.032 ±0.002	0.81 ±0.05

NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Dimension A is 'clean lead to clean lead'.
4. Resistance measurement points for all values of resistance shall be .375 ±.0625 (9.53 mm ±1.588 mm) from the end of the body.

* FIGURE 1. Style RBR53 resistor.

6. NOTES

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

6.1 Notes. The notes specified in MIL-PRF-39005 are applicable to this specification.

6.2 Acquisition requirements. Acquisition documents must specify the following:

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

* b. If not 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 Changes from previous issue. The margins of this specification 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.

Custodians:
Army - CR
Navy - EC
Air Force - 11
NASA - NA

Review activities:
Army - AR, AT, AV, CR4, MI
Navy - AS, MC, OS
Air Force - 19

Preparing activity:
Army - CR

Agent:
DLA - CC

(Project 5905-2008-017)

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 http://assist.daps.dla.mil.