

PERFORMANCE SPECIFICATION

RESISTORS, FIXED, FILM, (INSULATED), NONESTABLISHED RELIABILITY, AND ESTABLISHED RELIABILITY, STYLE RLR62

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

1. SCOPE

1.1 Scope. This specification covers the associated requirements for style RLR62, nonestablished reliability and established reliability, insulated, film, fixed, resistors.

2. APPLICABLE DOCUMENTS

2.1 General. The document listed in this section is specified in sections 3 and 4 of this standard. This section does not include documents cited in other sections of this standard 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 document cited in sections 3 and 4 of this standard, whether or not they are listed.

2.2 Government documents.

2.2.1 Specifications standards, and handbooks. The following specifications, standards and handbooks forms a part of this document to the extent specified herein. Unless otherwise specified, the issue of this document are those listed in the issue of the Department of Defense Index of Specifications and Standards (DoDISS) and supplement thereto, cited in the solicitation (see 6.2).

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Commander, US Army Communications-Electronics Command, ATTN: AMSEL-LC-LEO-E-EP, Fort Monmouth, NJ 07703-5023 by using the Standardization Document Proposal (DD Form 1426) appearing at the end of this document or by letter.

MIL-PRF-39017/6

SPECIFICATION

MILITARY

MIL-PRF-39017 - Resistors, Fixed, Film, (Insulated), NonEstablished Reliability and Established Reliability, General Specification for.

(Unless otherwise indicated, copies of the above specifications, standards, and handbooks are available from the Defense Printing Service Detachment Office, Building 4D (Customer Service), 700 Robbins Avenue, Philadelphia, PA 19111-5049.)

2.3 Order of precedence. In the event of a conflict between the text of this specification and the reference cited herein, the text of this specification shall take precedence. Nothing in this specification, however, shall supersede 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-39017.

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

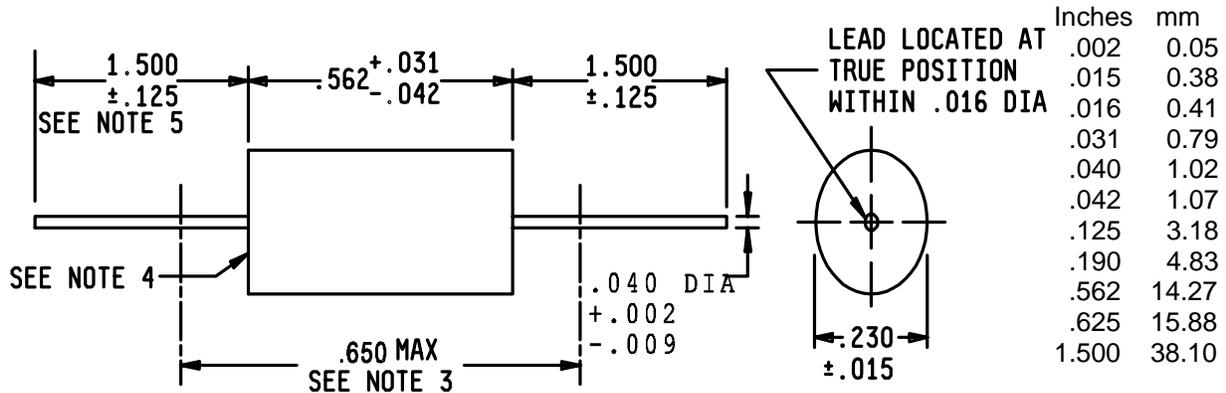
3.3 Power rating. The power rating shall be 2 watt.

3.4 Voltage rating. The continuous working voltage shall not exceed 500 volts.

3.5 Resistance. Minimum resistance and maximum resistance values for temperature characteristics of ± 100 parts per million (PPM) and ± 350 PPM shall be as follows:

| | <u>100 PPM</u> | <u>350 PPM</u> |
|--------------------------|----------------|----------------|
| Resistance tolerance (%) | 1, 2 | 2, 5, 10 |
| Minimum resistance | 10 ohms | 3.0 Megohms |
| Maximum resistance | 2.7 Megohms | 22 Megohms |

3.6 Maximum weight. The maximum weight shall not exceed 1.50 grams.



NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Maximum length is "clean lead" to "clean lead".
4. The end of the body shall be that point at which the body diameter equals the nearest drill size larger than 250 percent of the nominal lead diameter.
5. Lead length for tape and reel packaging shall be 1 inch (25.4 mm) minimum (see 6.2).

FIGURE 1. Style RLR62 resistor.

4. VERIFICATION

- 4.1 Sampling and inspection. Sampling and inspection shall be in accordance with MIL-PRF-39017.
- 4.2 Power conditioning. The maximum voltages applied shall not exceed 500 volts, ac or dc.
- 4.3 Dielectric withstanding voltage. The test voltages applicable to style RLR62 are as follows:

Atmospheric pressure - 1,000 volts rms.
Barometric pressure - 350 volts rms.

5. PACKAGING

5.1 Packaging. For acquisition purposes, packaging requirements shall be as specified in the contract or order (see 6.2). When actual packaging of materiel is to be performed by DoD personnel, these personnel need to contact the responsible packaging activity to ascertain requisite packaging requirements. Packaging requirements are maintained by the Inventory Control Point's packaging activity within the Military Department or Defense Agency, or within the Military Department's System Command. 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

(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-39017 are applicable to this specification.

6.2 Acquisition requirements. Acquisition documents must specify the following:

- a. Title, number, and date of the specification, and complete PIN.
- b. Issue of DoDISS to be cited in the solicitation, and if required, the specific issue of individual documents referenced (see 2.1).
- c. Packaging requirements (see 5.1).
- d. Lead length requirements for tape and reel packaging. (Contractor may specify smaller lead lengths in the purchase order).

6.3 Substitution data.

6.3.1 MIL-R-39008. Resistors of this specification, regardless of their failure rate (FR) designation, are suggested replacements for resistors of the same resistance value and tolerance specified in MIL-R-39008/5.

6.3.3 MIL-R-11. Resistors of this specification, regardless of their FR designation are suggested replacements for resistors of the same resistance value and tolerance specified in MIL-R-11/7.

Custodians:
Army - CR
Navy - EC
Air Force - 85
NASA - NA

Preparing activity:
Army - CR

Agent:
DLA - CC

Review activities:
Army - AR, AT, AV, ME
Navy - AS, CG, MC, OS
Air Force - 17, 99

(Project 5905-1478)

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

INSTRUCTIONS

1. The preparing activity must complete blocks 1, 2, 3, and 8. In block 1, both the document number and revision letter should be given.
2. The submitter of this form must complete blocks 4, 5, 6, and 7.
3. The preparing activity must provide a reply within 30 days from receipt of the form.

NOTE: This form may not be used to request copies of documents, nor to request waivers, or clarification of requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

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| I RECOMMEND A CHANGE: | 1. DOCUMENT NUMBER MIL-PRF-39017/6 | 2. DOCUMENT DATE (YYMMDD) 970519 |
| 3. DOCUMENT TITLE RESISTORS, FIXED, FILM (INSULATED), NONESTABLISHED, AND ESTABLISHED RELIABILITY, STYLE RLR62 | | |
| 4. NATURE OF CHANGE (Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.) | | |
| 5. REASON FOR RECOMMENDATION | | |
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| a. NAME (Last, First, Middle initial) | b. ORGANIZATION | |
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| a. NAME US Army Communications-Electronics Command | b. TELEPHONE (Include Area Code) (1) Commercial (908) 427-3441 (2) AUTOVON 987-3441 | |
| c. ADDRESS (Include Zip Code) ATTN: AMSEL-LC-LEO-E-EP Fort Monmouth, NJ 07703-5023 | IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT: Defense Quality and Standardization Office 5203 Leesburg Pike, Suite 1403, Falls Church, VA 22041-3466 Telephone (703) 756-2340 AUTOVON 289-2340 | |