

INCH-POUND

MIL-PRF-22097/1H  
31 August 2000  
SUPERSEDING  
MIL-R-22097/1G  
19 July 1971

PERFORMANCE SPECIFICATION  
RESISTORS, VARIABLE, NONWIRE WOUND  
(ADJUSTMENT TYPE, LEAD SCREW ACTUATED)  
STYLE RJ11

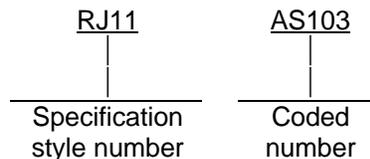
Inactive for new design after 4 November 1970 (see 6.3)

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 requirements for style RJ11, adjustment type, lead screw actuated, nonwire wound, variable resistors. This style is available in characteristics A.

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



## 2. APPLICABLE DOCUMENT

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

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Defense Supply Center, Columbus, ATTN: DSCC-VAT, Post Office Box 3990, Columbus, Ohio 43216-5000, by using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of the document or by letter.

AMSC N/A

FSC 5905

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

## MIL-PRF-22097/1H

### 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 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).

## SPECIFICATIONS

### DEPARTMENT OF DEFENSE

MIL-PRF-22097 - Resistor, Variable, Nonwire Wound (Adjustment Type), General Specification For.

(Unless otherwise indicated, copies of the above specifications, standards, and handbooks are available from the Document Automation and Production Service, Building 4D, (DPM-DODSSP), 700 Robbins Avenue, Philadelphia, PA 19111-5094.)

2.3 Order of precedence. In event 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-PRF-22097.

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

3.3 Power rating. The power rating shall be .25 watt for characteristic A.

3.4 Terminals. Available in S-type terminal only.

3.5 Nominal resistance value and maximum rated ac or dc working voltage. Nominal resistance values and maximum rated ac or dc working voltages shall be as specified in table I.

3.6 Actual effective electrical travel. Actual effective electrical travel shall be 17 turns minimum, and 27 turns maximum.

3.7 Operating torque. Operating torque shall be a maximum of 8 ounce-inches.

TABLE I. Nominal resistance value and maximum rated ac or dc working voltage.

Nominal resistance value	Maximum rated ac or dc working voltage	Nominal resistance value	Maximum rated ac or dc working voltage
<u>Ohms</u>	<u>Volts</u>	<u>Ohms</u>	<u>Volts</u>
100	5.0	20,000	70.7
200	7.07	25,000	79.0
500	11.1	50,000	111
1,000	15.8	100,000	158
2,000	22.3	250,000	250
5,000	35.4	500,000	300
10,000	50.0	1,000,000	300

#### 4. VERIFICATION

4.1 Sampling and inspection. Sampling and inspection shall be in accordance with MIL-PRF-22097, and as specified herein.

4.2 Dielectric withstanding voltage. The magnitude of test voltage shall be 900 volts at atmospheric pressure, and 350 volts at reduced barometric pressure.

#### 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 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

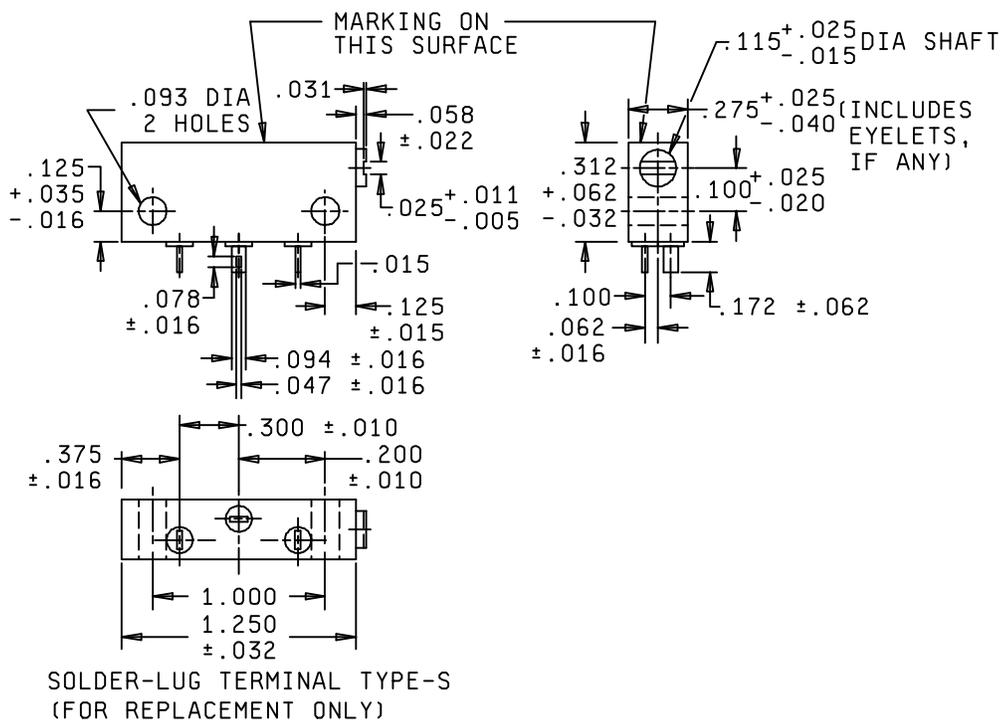
(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)

6.1 Intended use. The notes specified in MIL-PRF-22097 are applicable to this specification.

6.2 Acquisition requirements. Acquisition documents must specify the following.

- a. Title, number, and date of this specification.
- b. Issue of DoDISS to be cited in the solicitation, and if required, the specific issue of individual documents referenced (see 2.2.1).

MIL-PRF-22097/1H



Inches	mm	Inches	mm	Inches	mm
.005	0.13	.035	0.89	.125	3.18
.010	0.25	.040	1.02	.172	4.37
.011	0.28	.047	1.19	.200	5.08
.015	0.38	.058	1.47	.275	6.99
.016	0.41	.062	1.57	.300	7.62
.020	0.51	.078	1.98	.312	7.92
.022	0.56	.093	2.36	.375	9.53
.025	0.64	.094	2.39	1.000	25.40
.031	0.79	.100	2.54	1.250	31.75
.032	0.81	.115	2.92		

NOTES:

1. Dimensions are in inches.
2. Unless otherwise specified, tolerance is  $\pm 0.005$  (.13 mm).
3. Metric equivalents (to the nearest .01 mm) are given for general information only and are based upon 1 inch = 25.4 mm.
4. The picturization of the styles above are given as representative of the envelope of the item. Slight deviations from the outline shown, which are contained within the envelope, and do not alter the functional aspects of the device are acceptable.
5. Standoffs and/or eyelets are optional, but shall be contained in the envelope dimensions specified in figure 1.

FIGURE 1. Style RJ11.

MIL-PRF-22097/1H

6.3 Weight. The maximum weight is .012 pound (5.4 grams).

6.5 Substitution data. Characteristic A in terminal type P and characteristic B, characteristic C, and characteristic F in terminal types L and P is deleted from this specification. Characteristic A, characteristic B, and characteristic C is replaced by characteristic F of MIL-PRF-22097/2. Characteristic F is replaced by characteristic F of MIL-PRF-22097/1. Terminal types L and P is replace by terminal types L and Y respectively, of MIL-PRF-22097/2.

6.6 Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extensiveness of the changes.

Custodians:

Army – CR  
Navy – EC  
Air Force – 11

Preparing activity:

DLA – CC

(Project 5905-1582-01)

Review activities:

Army – AR, AT, AV, CR4, MI  
Navy – MC, OS  
Air Force – 19