

INCH-POUND
MIL-PRF-39035/3E
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SUPERSEDING
MIL-PRF-39035/3D
12 February 1998

PERFORMANCE SPECIFICATION

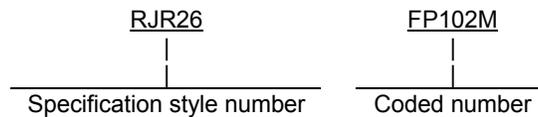
RESISTORS, VARIABLE, NONWIRE-WOUND (ADJUSTMENT TYPE, LEAD-SCREW ACTUATED), NONESTABLISHED RELIABILITY, AND ESTABLISHED RELIABILITY STYLE RJR26

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 RJR26, nonestablished reliability and established reliability, adjustment type, lead-screw actuated, nonwire-wound, variable resistors. This style is available in characteristic F and H.

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



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.

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

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.

SPECIFICATION

DEPARTMENT OF DEFENSE

MIL-PRF-39035 - Resistors, Variable, Nonwire-wound (Adjustment Type), Nonestablished Reliability, and Established Reliability, 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 the event of a conflict between the text of this document and the references cited herein 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-39035.

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

3.3 Power rating. The power rating shall be 1/4 watt for characteristics F and H.

3.4 Terminals. Characteristics F and H are available in A-, B-, C-, P-, W-, and X- type terminals.

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 10 turns minimum, and 25 turns maximum.

3.7 Operating torque. Operating torque shall be a maximum of 3 ounces-inches.

3.8 Maximum voltage. Maximum rated ac or dc working voltage shall be 200 volts.

4. VERIFICATION

4.1 Sampling and inspection. Sampling and inspection shall be in accordance with MIL-PRF-39035, and as specified herein.

4.2 Dielectric withstanding voltage. In the dielectric withstanding voltage test, the applied potential shall be 600 volts rms at atmospheric pressure, and 250 volts rms at reduced barometric pressure.

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

Nominal resistance value	Maximum rated ac or dc working voltage per characteristics
	F and H
<u>Ohms</u>	
10	1.58
20	2.23
50	3.54
100	5.0
200	7.07
500	11.1
1,000	15.8
2,000	22.3
5,000	35.4
10,000	50.0
20,000	70.7
25,000	79.0
50,000	111
<u>Megohms</u>	
0.10	158
0.20	200
0.25	200
0.50	200
1.00	200

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 material 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.

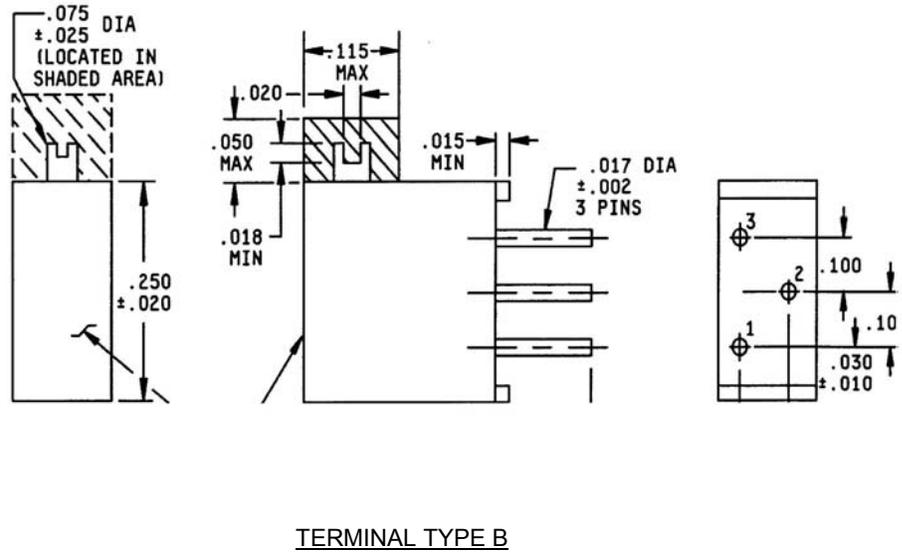
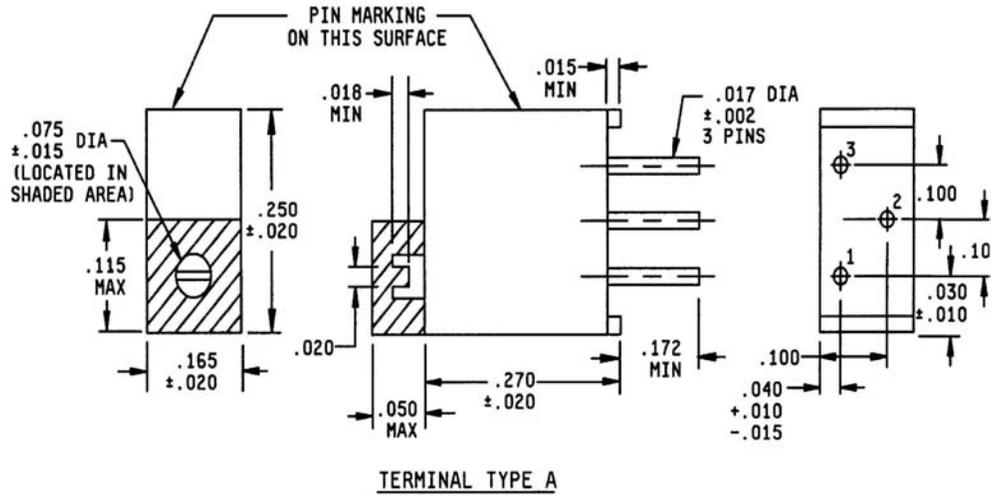
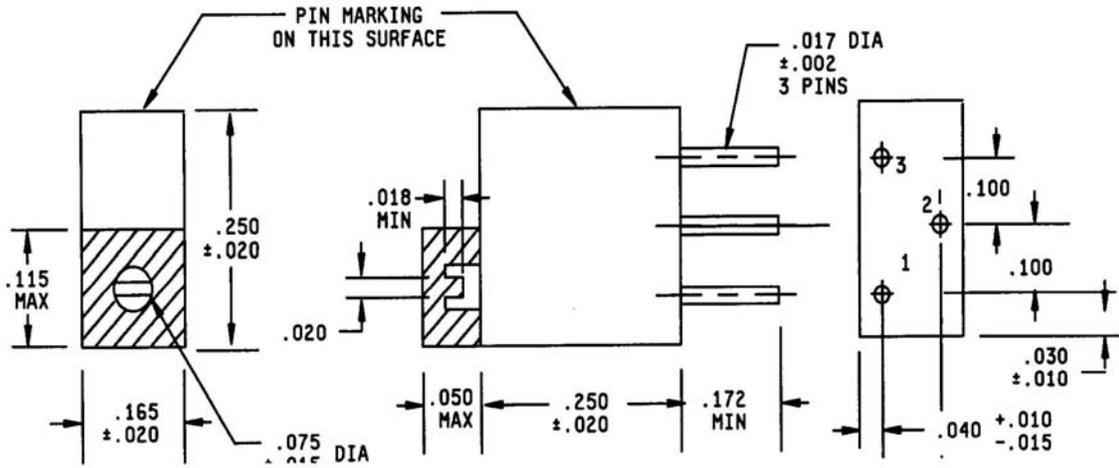
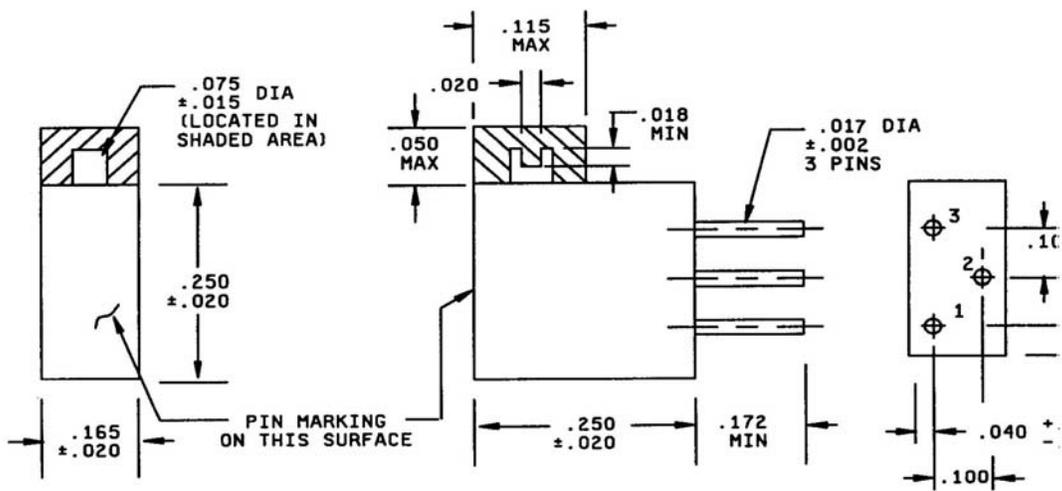


FIGURE 1. Style RJR26 resistors.

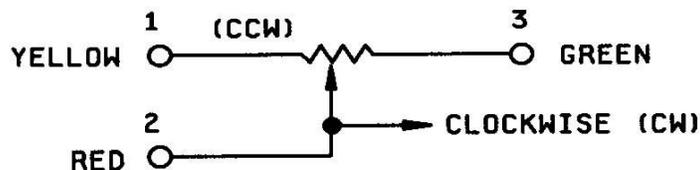


TERMINAL TYPE W



TERMINAL TYPE X

FIGURE 1. Style RJR26 resistors - Continued.



SCHEMATIC DIAGRAM

<u>Inches</u>	<u>mm</u>								
0.002	0.051	0.018	0.46	0.040	1.02	0.115	2.92	0.175	4.44
0.010	0.250	0.020	0.51	0.050	1.27	0.125	3.18	0.195	4.95
0.015	0.381	0.025	0.64	0.075	1.90	0.165	4.19	0.250	6.35
0.017	0.432	0.030	0.76	0.100	2.54	0.172	4.37	0.270	6.86

NOTES:

1. Dimensions are in inches.
2. Unless otherwise specified, tolerance is 0.005 (0.13 mm).
3. Metric equivalents are given for general information only.
4. The entire slot of the actuating screw must be above the surface of the unit.
5. The head of the lead screw actuator shall not extend beyond any edge of the surface upon which it is mounted.
6. Mounting means are by use of pins only.
7. Standoff shape and location is optional.

FIGURE 2. Style RJR26 resistors - Continued.

6. NOTES

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

6.1 Intended use. The notes specified in MIL-PRF-39035 are applicable to this specification.

6.2 Acquisition documents. 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).
- c. Packaging requirements (see 5.1)

6.3 Weight. The weight is .021 ounces (0.6 grams).

6.4 MIL-R-22097 substitution data. Resistors of this specification regardless of their failure rate designation are substitutes for resistors of the same resistance value, tolerance, terminal characteristic and resistance temperature characteristics specified in the inactivated specifications MIL-PRF-22097/5.

6.4 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
DLA - CC

Preparing activity:

DLA - CC

Review activities:

Army - AR, AT, AV, CR4, MI
Navy - AS, CG, MC, OS
Air Force - 19, 99

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