INCH-POUND
MIL-PRF-12934/36C
w/Amendment 1
28 April 2014
SUPERSEDING
MIL-PRF-12934/36C
25 August 2009

PERFORMANCE SPECIFICATION

RESISTOR, VARIABLE, WIREWOUND, PRECISION, STYLE RR3601

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-12934.

1. SCOPE

1.1 Scope. This specification covers the requirements for style RR3601, variable, wirewound, precision resistors.

1.2 Part or Identifying Number (PIN). Variable resistors covered by this specification must be identified by a PIN which must be in the following form.

Single-section (cup) resistors

RR3601	F	2	A	9	K	103
Style (1.2.1)	Function and shaft length (1.2.2)	Class and center tap (1.2.3)	Resistance temperature characteristic (1.2.4)	Rotational life characteristic (1.2.5)	Function conformity tolerance and resistance tolerance characteristic (1.2.6)	Resistance (1.2.7)

1.2.1 Style. Style RR3601 is a similar style to RR3600.

1.2.2 Function and shaft length. The function and shaft length applicable to this specification is identified by a single symbol D (see figure 1).

1.2.3 Class and center tap. The class and center tap applicable to this specification is symbol 2.

1.2.4 Resistance temperature characteristic. The resistance temperature characteristic applicable to this specification is symbol A.

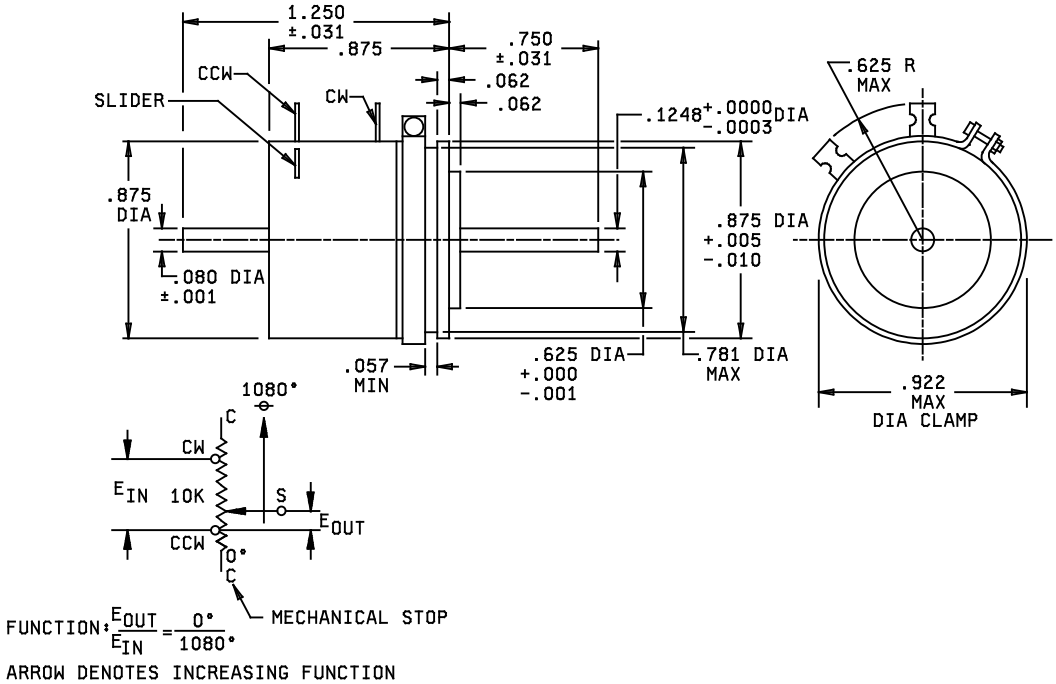
1.2.5 Rotational life characteristic. The rotational life characteristics applicable to this specification is symbol 9.

1.2.6 Function-conformity tolerance and resistance tolerance characteristics. The function-conformity tolerance and resistance tolerance characteristic applicable to this specification is symbol K.

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 by email 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/.

AMSC N/A FSC 5905

1.2.7 Resistance. The nominal total resistance values and nominal resolution applicable to this specification is 10 kilohms (kΩ).



Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
.0003	0.008	.010	0.25	.062	1.57	.625	16.88	.875	22.23
.001	0.03	.031	0.79	.080	2.03	.750	19.05	.922	23.42
.005	0.13	.057	1.46	.1248	3.17	.781	19.84	1.250	31.75

Style	Turns	Maximum continuous working voltage (volts)	Power rating (watts)	Maximum starting and running torque		Stop torque (pound-inch)
				Starting	Running	
RR3601	Three	400	1.5	0.5	0.4	3

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.

FIGURE 1. Style RR3601

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.

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 (see 6.2).

DEPARTMENT OF DEFENSE SPECIFICATION

MIL-PRF-12934 - Resistor, Variable, Wirewound, Precision, General Specification for.

(Copies of these documents are available online at http://quicksearch.dla.mil).

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 specification sheets), the text of this document takes precedence unless otherwise noted. 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-12934.

3.2 Interface and physical dimensions. The resistors shall meet the interface and physical dimensions specified in figure 1.

3.3 Mechanical travel. The mechanical travel shall be 1080 degrees +10 degrees, -0 degrees.

3.4 Actual electrical travel. The theoretical electrical travel shall be 1080 degrees +5 degrees, -0 degrees.

3.5 Function. The type of function applicable to this specification shall be independent linearity.

3.6 Pure tin. The use of pure tin, as an underplate or final finish is prohibited both internally and externally. Tin content of resistor components and solder shall not exceed 97 percent, by mass. Tin shall be alloyed with a minimum of 3 percent lead, by mass (see 6.4).

4. VERIFICATIONS.

4.1 Sampling and inspection. Sampling and inspection procedures shall be in accordance with MIL-PRF-12934.

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 activity within the Military Service or Defense Agency, or within the military services 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

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

6.1 Intended use. The intended use specified in MIL-PRF-12934 will be applicable to this specification.

6.2 Acquisition requirements. Acquisition documents must specify the following:

a. Title, number, and date of this specification, and the complete PIN (see 1.2).

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 instructions (see 5.1).

6.3 PIN. This specification requires a PIN that describes technology and appropriate references to associated documents (see 1.2 and 3.1).

6.4 Tin whisker growth. The use of alloys with tin content greater than 97 percent, by mass, may exhibit tin whisker growth problems after manufacture. Tin whiskers may occur anytime from a day to years after manufacture and can develop under typical operating conditions, on products that use such materials. Conformal coatings applied over top of a whisker-prone surface will not prevent the formation of tin whiskers. Alloys of 3 percent lead, by mass, have shown to inhibit the growth of tin whiskers. For additional information on this matter, refer to ASTM-B545 (Standard Specification for Electrodeposited Coatings of Tin).

6.5 Amendment notification. The margins of this specification are marked with vertical lines to indicate modification 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 and relationship.

Custodians:
Navy - EC
DLA - CC

Preparing activity:
DLA – CC

(Project 5905-2013-074)

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.