REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED

Prepared in accordance with MIL-STD-100

Selected item drawing

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PMIC N/A	PREPARED BY Jesus V Garcia III	DEFENSE SUPPLY CENTER, COLUMBUS COLUMBUS, OH
Original date of drawing: 10 March 2000	CHECKED BY APPROVED BY	TITLE RESISTOR, VARIABLE, WIREWOUND, NONPRECISION, TRIMMER, 3/8 INCH, SQUARE, 1 WATT, FLEXIBLE LEADS
	SIZE A / CODE IDENT. NO. 037Z3	DWG NO. 00001
	REV	PAGE 1 OF 5

AMSC N/A

5905-E319

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

1. SCOPE

1.1 Scope. This drawing describes the requirements for a 1 watt, 3/8 inch square, wirewound, nonprecision, variable resistor, trimmer with flexible leads.

1.2 Part or Identifying Number (PIN). The complete PIN is as follows:

00001	-	103
Drawing number		Resistance

2. APPLICABLE DOCUMENTS

2.1 Government documents.

2.2 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).

SPECIFICATION

DEPARTMENT OF DEFENSE

MIL-PRF-27208 - Resistor, Variable, Wirewound, Nonprecision, General Specification for.

STANDARD

DEPARTMENT OF DEFENSE

MIL-STD-1285 - Marking of Electrical and Electronic Parts.

(Unless otherwise indicated, copies of federal and military specifications, standards, and handbooks are available from the Defense Automated Printing 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 Item requirements. The individual item requirements shall be in accordance with MIL-PRF-27208 and as specified herein.

3.2 Interface and physical dimensions. The resistor shall meet the interface and physical dimensions as specified in MIL-PRF-27208 and herein (see figure 1).

3.3 Electrical characteristics.

3.3.1 Nominal resistance value. The nominal resistance values are as specified in table I.

TABLE I. Nominal resistance value.

Dash number -XXX	Nominal resistance value (in ohms)
100	10
200	20
500	50
101	100
201	200
501	500
102	1000
202	2000
502	5000
103	10000
203	20000
253	25000
353	35000
503	50000

3.3.2 Actual effective electrical travel. Actual effective electrical travel shall be 18 turns minimum, and 26 turns maximum.

3.3.3 Resistance tolerance. The resistance tolerance shall be ±5 percent.

3.3.4 Power rating. The power rating shall be 1.0 watt.

3.3.5 Operating torque. The operating torque shall be 5 ounce-inches maximum.

3.3.6 Operating temperature. The operating temperature shall be -65^{o}C to +150^{o}C.

3.3.7 Terminal. Resistors are available in flexible “L” type terminals.

3.3.8 Resistance temperature characteristic. The resistance temperature characteristic shall be ±50 PPM/^{o}C.

3.4 Marking. Marking shall be accordance with MIL-STD-1285, except the resistors shall be marked with the PIN assigned herein, (see 1.2), manufacturer’s identification code (CAGE or logo), and date and lot codes.

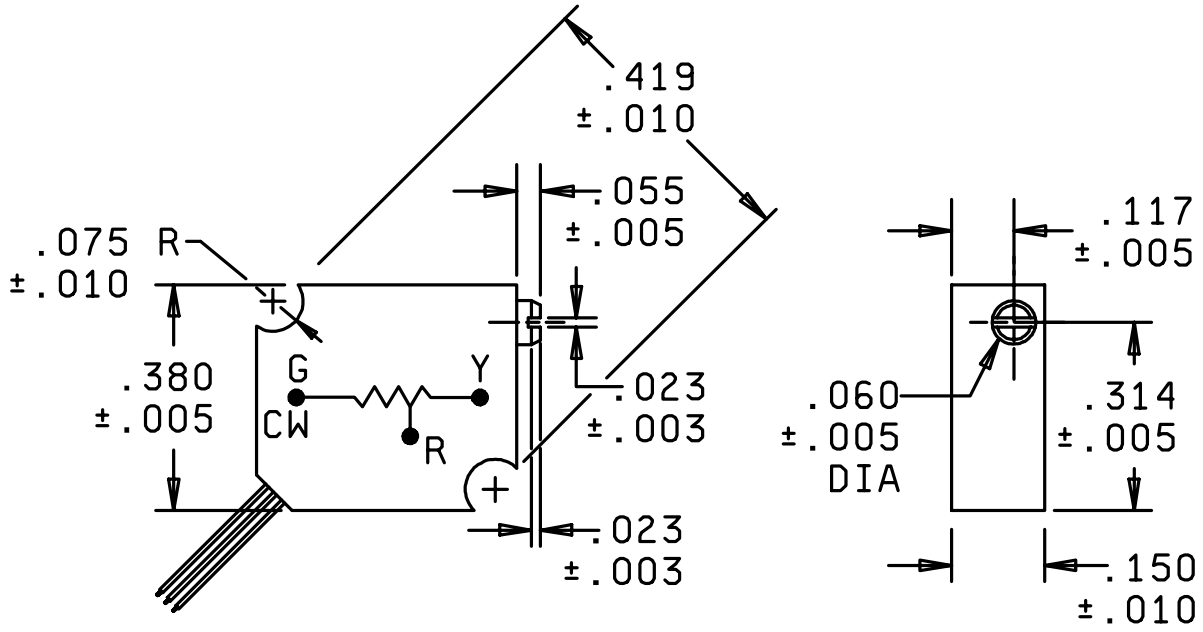
3.5 Recycled, recovered, or environmentally preferable materials. Recycled, recovered, or environmentally preferable materials should be used to the maximum extent possible provided that the material meets or exceeds the operational and maintenance requirements, and promotes economically advantageous life cycle costs.

3.6 Certificate of compliance. A certificate of compliance shall be required from manufacturers requesting to be a suggested source of supply.

3.7 Workmanship. Resistors shall be processed in such a manner as to be uniform in quality and parts shall be free from any defects that will affect life, serviceability, or appearance.

4. VERIFICATION

4.1 Qualification inspection. Qualification inspection is not applicable to this document.



Inches	mm	Inches	mm
.003	.076	.075	1.90
.005	.127	.117	2.97
.010	.254	.150	3.81
.023	.584	.314	7.98
.055	1.40	.380	9.65
.060	1.52	.419	10.64

NOTE:
1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. The three leads shall be insulated wire, AWG 30, having a minimum length of 6 (152.4 mm); they shall be insulated with polytetrafluoroethylene, stripped .250 ±.062 (6.35 ±1.57mm) from the end and color code.
4. The picturization of the resistor above is a given 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.

FIGURE 1. Flexible lead, variable wirewound trimmer.

4.2 Conformance inspection.

4.2.1 Inspection of product for delivery. Inspection of product for delivery shall consist of the group A inspections of MIL-PRF-27208.

4.2.1.1 Group A inspection. Group A inspection shall be in accordance with MIL-PRF-27208.

5. PACKAGING

5.1 Packaging. For acquisition purposes, the packaging requirements will 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 which may be helpful, but is not mandatory.)

6.1 Intended use. Resistors conforming to this drawing are intended for use when military specifications do not exist and qualified military devices that will perform the required function are not available for the OEM application.

6.2 Ordering data. The contract or purchase order should specify the following:

a. Complete PIN (see 1.2).

b. Requirements for delivery of one copy of the conformance inspection data or certificate of compliance that parts have passed conformance inspection with each shipment of parts by the manufacturer.

c. Requirements for packaging and packing.

6.3 Users of record. Coordination of this document for future revisions are coordinated only with the suggested sources of supply and the users of record of this document. Requests to be added as a recorded user of this drawing should be in writing to: DSCC-VAT, Post Office Box 3990, Columbus, OH 43216-5000 or by telephone (614) 692-8754 or DSN 850-8754.

6.4 Suggested sources of supply. Suggested sources of supply are listed herein. Additional sources will be added as they become available. For assistance in the use of this drawing, contact DSCC-VAT, Post Office Box 3990, Columbus, OH 43216-5000 or by telephone (614) 692-8754 or DSN 850-8754.

DSCC drawing PIN	Vendors similar designation or type number 1/	Vendor CAGE	Vendor's name and address
00001	117S	17826	Vishay Techno 7803 Lemona Van Nuys, CA 91405-1139