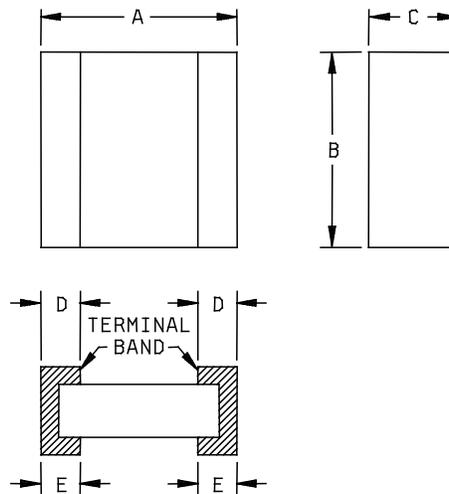


REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	Add vendor. Dimensional changes. Added solder mounting integrity paragraph. Change reference document from MIL-PRF-55342 to MIL-PRF-32159. Editorial changes throughout.	20 APR 2010	M. Radecki
B	Revise to present DoD policy requirements.	30 MAY 2014	M. Radecki

CURRENT DESIGN ACTIVITY CAGE CODE 037Z3
HAS CHANGED NAMES TO:
DLA LAND AND MARITIME
COLUMBUS, OHIO 43218-3990

Prepared in accordance with [ASME Y14.100](#)

REV STATUS OF PAGES	REV	B	B	B	B	B												
	PAGES	1	2	3	4	5												
PMIC N/A	PREPARED BY Andrew R. Ernst		DEFENSE SUPPLY CENTER, COLUMBUS COLUMBUS, OH															
Original date of drawing 24 July 2003	CHECKED BY Andrew R. Ernst		TITLE RESISTOR, FIXED, FILM, CHIP, ZERO-OHM, STYLE 0201															
	APPROVED BY Kendall A. Cottongim																	
	SIZE A	CODE IDENT. NO. 037Z3	DWG NO. 03011															
	REV B		PAGE 1 OF 5															



A	B	C	D	E
0.60	0.30	0.23	0.15	0.15
±0.05	±.05	±.05	±.07	+0.05 -0.10

Inches	mm
.002	0.05
.003	0.07
.004	0.10
.006	0.15
.009	0.23
.012	0.30
.024	0.60

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. The pictorial view of the style above is given as representative of the item. Slight deviations from the outline shown, which are contained within the envelope, and do not alter the functional aspect of the device, are acceptable.

FIGURE 1. Zero-ohm chip resistor style 0201.

3.4 Marking. Marking of the individual chip resistors is not required; however, each unit package shall be marked in accordance with [MIL-STD-1285](#) and include the PIN as specified herein (see 1.2), the manufacturer's name or Commercial and Government Entity (CAGE) code, date, and lot codes.

* 3.5 Recycled, recovered, environmentally preferable, or biobased materials. Recycled, recovered, environmentally preferable, or biobased 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 Manufacturer eligibility. To be eligible for listing as a approved source of supply, a manufacturer shall be listed on the [MIL-PRF-32159](#) Qualified Products List for at least one part, or perform the group A and B inspections specified herein on a sample agreed upon by the manufacturer and DLA Land and Maritime-VAT.

DEFENSE SUPPLY CENTER, COLUMBUS COLUMBUS, OHIO	SIZE A	CODE IDENT NO. 037Z3	DWG NO. 03011
		REV B	PAGE 3

3.6.1 Certificate of compliance. A certificate of compliance shall be required from manufacturers requesting to be listed as an approved source of supply.

3.7 Workmanship. Resistors shall be uniform in quality and free from defects that will affect life, serviceability, or appearance.

4. VERIFICATION

4.1 Product assurance program. The product assurance program specified in MIL-PRF-32159 and maintained in accordance with MIL-STD-790 is not applicable to this document.

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

4.3 Product level qualification. The product level qualification specified in MIL-PRF-32159 is not applicable to this document.

4.4 Conformance inspection.

4.4.1 Inspection of product for delivery. Inspection of product for delivery shall consist of group A and group B inspection (high reliability level only and the parts per million reporting is not applicable) of MIL-PRF-32159.

4.4.2 Group B inspection. Group B inspection shall be in accordance with MIL-PRF-32159.

4.4.2.1 Certification. The acquiring activity, at its discretion, may accept a certificate of compliance with group B requirements in lieu of performing group B tests (see 6.2d).

4.5 Visual and mechanical examination. Resistors shall be examined to verify that the materials, design, construction, physical dimensions, marking, and workmanship are in accordance with the applicable requirements of MIL-PRF-32159.

4.6 Solder mounting integrity. The solder mounting integrity for group B inspection shall be .5 kilograms.

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 Department or Defense Agency, or within the military service's 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 a general or explanatory nature that may be helpful, but is not mandatory.)

6.1 Intended use. Chip resistors are intended for use in thick or thin film circuits where microcircuitry is intended; also in most surface mount applications.

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

- a. Complete PIN (see 1.2).
- b. Requirements for delivery: One copy of the conformance inspection data or certification of compliance that parts have passed conformance inspection with each shipment of parts by the manufacturer.
- c. Requirements for packaging and packing.
- d. Whether the manufacturer performs the group B tests or provides certification of compliance with group B requirements (see 4.4.2.1).

DEFENSE SUPPLY CENTER, COLUMBUS COLUMBUS, OHIO	SIZE A	CODE IDENT NO. 037Z3	DWG NO. 03011
		REV B	PAGE 4

6.3 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).

* 6.4 Electrostatic charge. Under several combinations of conditions, these resistors can be electrically damaged, by electrostatic charges, and drift from specified value. Users should consider this phenomena when ordering or shipping resistors. Direct shipment to the Government is controlled by [MIL-DTL-39032](#), which specifies a preventive packaging procedure.

6.5 Pulse applications. Designers are CAUTIONED on using the above resistors in high power pulse applications. Since they have not been qualified nor tested for such applications, damage and premature failure are possible. These resistors only see a one time pulse (Short-time overload) as part of the group B inspection of [MIL-PRF-32159](#).

* 6.6 User of record. Coordination of this document for future revisions is coordinated only with the approved source of supply and the users of record of this document. Requests to be added as a recorded user of this drawing may be achieved online at resistor@dla.mil or in writing to: DLA Land and Maritime, Attn: VAT, Post Office Box 3990, Columbus, OH 43218-3990 or by telephone (614) 692-0552 or DSN 850-0552.

* 6.7 Approved source of supply. Approved source of supply is listed herein. Additional sources will be added as they become available. Assistance in the use of this drawing may be obtained online at resistor@dla.mil or contact DLA Land and Maritime, Attn: VAT, Post Office Box 3990, Columbus, OH 43218-3990 or by telephone (614) 692-0552 or DSN 850-0552.

DLA Land and Maritime drawing PIN 03011-*	Vendors similar designation or type number <u>1/</u>	Vendor CAGE	Vendor's name and address
Termination styles B	RCWP-0201-**	SH903	Vishay Dale Electronics PO Box 609 Columbus, NE 68602-0609 Plant: Vishay Israel, Ltd Emek-Sara "B" Industrial Park Beer Sheva, Israel 84874
Termination styles B	WAJ 96PG-XXXX	50316	MINI-SYSTEMS, INC. 20 David Road N. Attleboro, MA 02761-0069

1/ Parts must be purchased to the DLA Land and Maritime PIN to assure that all performance requirements and tests are met.

DEFENSE SUPPLY CENTER, COLUMBUS COLUMBUS, OHIO	SIZE A	CODE IDENT NO. 037Z3	DWG NO. 03011
		REV B	PAGE 5