

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	Revise par. 3.4 and Section 5. Editorial changes throughout.	20 Dec 1994	D. Moore
B	Revise to present DoD policy requirements. Editorial corrections throughout.	27 JUL 2000	Kendall A. Cottongim

PREVIOUS CAGE CODE 14933 SUPERSEDED BY 037Z3.

THE ORIGINAL FIRST PAGE OF THIS DRAWING HAS BEEN REPLACED.

Prepared in accordance with MIL-STD-100

Selected item drawing

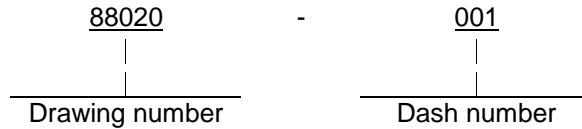
REV STATUS OF PAGES	REV	B	B	B	B	B	B	B										
	PAGES	1	2	3	4	5	6	7										

PMIC N/A	PREPARED BY Dennis L. Cross		DEFENSE SUPPLY CENTER, COLUMBUS COLUMBUS, OH															
Original date of drawing: 26 APR 1988	CHECKED BY David E. Moore		TITLE RESISTOR NETWORK, 6-PIN, LEADLESS CHIP CARRIER															
	APPROVED BY David E. Moore																	
	SIZE A	CODE IDENT. NO. 14933	DWG NO. 88020															
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1. SCOPE

1.1 Scope. This drawing describes the requirements for a 6-pin, leadless chip carrier, resistor network.

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



1.2.1 Dash number. The dash number shall be as indicated by table I and figure 1.

TABLE I. Resistance values.

DSCC drawing number 88020-	Resistance (kohms)			
	R1	R2	R3	R4
001	1.0	1.0	1.0	1.0
002	1.0	10.0	4.32	2.0
003	1.0	2.981	N/A	N/A
004	1.0	1.82	N/A	N/A
005	1.0	3.41	N/A	N/A
006	1.0	6.94	N/A	N/A
007	2.74	1.0	N/A	N/A
008	2.0	2.0	2.2	N/A

1.2.2 Schematic. The schematic of this resistor network is identified as shown on figure 1. The resistor element R_{REF} is the reference resistor element used in determining the ratio accuracy (when applicable).

2. APPLICABLE DOCUMENTS

2.1 Government documents.

2.1.1 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).

SPECIFICATION

DEPARTMENT OF DEFENSE

MIL-PRF-914 - Resistors Networks, Fixed, Film, Surface Mount, Nonestablished Reliability, and Established Reliability, General Specification For.

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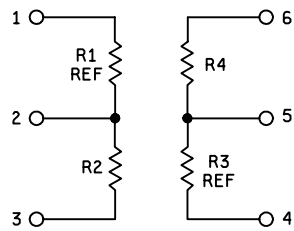
STANDARD

DEPARTMENT OF DEFENSE

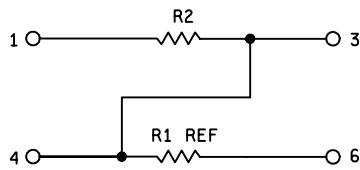
MIL-STD-1285 - Marking of Electrical and Electronic Parts.

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

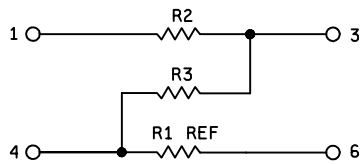
2.2 Order of precedence. In the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.



DASH NUMBERS 001 AND 002



DASH NUMBERS 003 AND 007

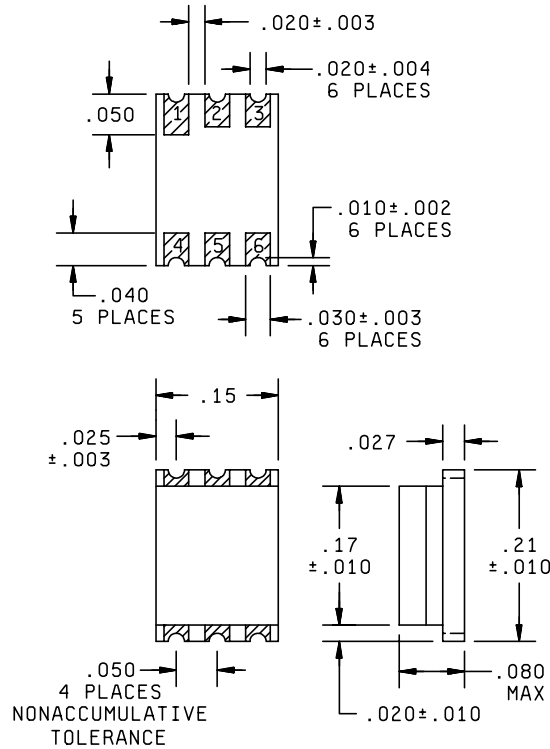


DASH NUMBER 008

NOTE: Pins 2 and 5 are unused for dash numbers 003 through 008.

FIGURE 1 Schematic.

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Inches	mm	Inches	mm	Inches	mm	Inches	mm
0.002	0.05	0.010	0.25	0.030	0.76	0.150	3.81
0.003	0.08	0.020	0.51	0.040	1.02	0.170	4.32
0.004	0.10	0.025	0.64	0.050	1.27	0.210	5.33
0.005	0.13	0.027	0.69	0.080	2.03		

NOTES:

- Dimensions are in inches.
- Metric equivalents are given for general information only.
- Unless otherwise specified, tolerances are $\pm .005$ (0.13 mm) for three decimal places and $\pm .010$ (0.25 mm) for two decimal places.
- The picturization of the style above is 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.
- Terminal 1 indicator shall be a notch, dot, or the numeral 1. This should be located at a point that clearly indicates terminal 1.

FIGURE 2. Resistor network.

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3. REQUIREMENTS

3.1 Item requirements. The individual item requirements shall be in accordance with MIL-PRF-914 and as specified herein.

3.2 Interface and physical dimensions. The resistor shall meet the interface and physical dimensions as specified in MIL-PRF-914 and herein (see figure 1).

3.3 Electrical characteristics.

3.3.1 Resistance. The resistance shall be as specified in table I.

3.3.2 Resistance tolerance. Resistors are available in (F) ± 1 percent tolerance.

3.3.3 Ratio accuracy. The ratio accuracy shall be ± 0.02 percent for -001 and ± 0.05 percent for the remaining dash numbers.

3.3.4 Power rating. The power rating shall be 0.10 watt at 70°C derated to zero power at 125°C in accordance with MIL-PRF-914.

3.3.5 Package power rating. The package power rating shall be 0.10 watt times the number of individual elements.

3.3.6 Schematic. The schematic of the resistor network shall be identified as shown on figure 1 below. The resistor element R_{REF} shall be the reference resistor element used in determining the ratio accuracy (when applicable).

3.3.7 Operating voltage. The maximum operating voltage shall be 30 V dc.

3.3.8 Operating temperature. The operating temperature shall be -55°C to +125°C.

3.3.9 Resistance temperature characteristic. The resistance temperature characteristic shall conform to characteristic "V" of MIL-PRF-914.

3.3.10 TC tracking. The TC tracking shall be ± 5 ppm/°C.

3.4 Marking. Marking shall be in accordance with MIL-STD-1285, except the PIN shall be as specified in 1.2, with the manufacturer's CAGE number or trade mark and date code.

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 listed as a suggested source of supply.

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

4. VERIFICATION

4.1 Product assurance program. The product assurance program specified in MIL-PRF-914 is not applicable to this document.

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

4.2.1 Failure rate qualification. The failure rate qualification specified in MIL-PRF-914 is not applicable to this document.

4.3 Conformance inspections.

4.3.1 Inspection of product for delivery. Inspection of product for delivery shall consist of group A and group B inspections of MIL-PRF-914.

4.3.2 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).

4.4 Inspection of packaging. Inspection of packaging shall be in accordance with MIL-PRF-914.

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-914.

5. PACKAGING

5.1 Packaging. For acquisition purposes, the 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 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 that may be helpful, but is not mandatory.)

6.1 Intended use. Resistor networks are used in surface mounting applications where space is a major concern.

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

- a. Complete PIN (see 1.2).
- b. Requirements for delivery, and 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.

6.3 User of record. Coordination of this document, for future revisions, shall be 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: Defense Supply Center, Columbus (DSCC), DSCC-VAT, Post Office Box 3990, Columbus, OH 43216-5000 or telephone (614) 692-0553 or DSN 850-0553.

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6.4 Suggested sources of supply. Suggested sources of supply are listed herein. Additional suggested sources will be added as they become available. For assistance in the use of this document, contact Defense Supply Center, Columbus (DSCC), DSCC-VAT, Post Office Box 3990, Columbus, OH 43216-5000, or telephone (614) 692-0553 or (DSN) 850-0553.

DSCC drawing PIN 88020-*****	Vendor similar designation or type number <u>1/</u>	Vendor CAGE	Vendor's name and address
001	L018	57027	IRC, Inc. 4222 S. Staples Street Corpus Christi, TX 78411-2702
002	L020		
003	L005		
004	L006		
005	L007		
006	L008		
007	L009		
008	L015		

1/ Caution. Do not use this PIN for item acquisition and marking. Similar vendor type may not satisfy the requirements of this drawing.

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