

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
A	Add new source of supply; change temperature coefficient of schematics 6 and 14. Editorial changes throughout.	88-05-20	D. MOORE
B	Changes in accordance with NOR 5905-R010-93.	93-05-28	D. MOORE
C	Update and validation of drawing. Editorial changes throughout.	00-09-11	K. COTTONGIM
D	Add pure tin prohibition paragraph. Editorial changes throughout.	07-01-29	M. RADECKI
E	RTC Tracking changes for Schematics 01, 02, 03, 05, 15 and 24. Dash number 06 seat height is 0.350 inches max. QR Code added. Vendor address change. Editorial changes throughout	16-06-06	M. RADECKI
F	5 year review and editorial updates.	24-10-01	M. RADECKI

CURRENT DESIGN ACTIVITY CAGE CODE 037Z3
 DEFENSE LOGISTICS AGENCY
 DEFENSE SUPPLY CENTER, COLUMBUS
 COLUMBUS, OHIO 43218-3990

PREVIOUS CAGE CODE 14933
 SUPERSEDED BY 037Z3.



Prepared in accordance with ASME Y14.24

Selected Item Drawing

Revision Status of Sheets

REV																				
SHEET																				
REV	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		

PMIC N/A Original date of drawing 1987-12-29	PREPARED BY Alan R. Knox		DEFENSE ELECTRONIC SUPPLY CENTER DAYTON, OHIO 45444-5000	
	CHECKED BY David W. Withrow		TITLE RESISTOR NETWORK, FIXED, FILM, 10-PIN SIP, MULTIPLE RESISTANCE VALUES, MULTIPLE SCHEMATICS, (LOW PROFILE)	
	APPROVED BY David E. Moore		DWG NO. 87071	
	SIZE A	CAGE CODE 14933	PAGE 1 OF 18	
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1. SCOPE

1.1 Scope. This drawing describes the requirements for a 10-pin, low profile, single-in-line package (SIP), fixed film, resistor network.

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

87071-01

- 87071- - Drawing number
- 01 - Schematic number (see [figure 2](#))

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 cited in the solicitation or contract.

DEPARTMENT OF DEFENSE SPECIFICATIONS

[MIL-PRF-83401](#) - Resistor Network, Fixed, Film, and Capacitor-Resistor Network, Ceramic Capacitor and Fixed Film Resistor, General Specification for.

DEPARTMENT OF DEFENSE STANDARDS

[MIL-STD-1285](#) - Marking of Electrical and Electronic Parts.

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

2.2 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 Item Requirements. The individual item requirements shall be in accordance with [MIL-PRF-83401](#) and as specified herein.

3.2 Interface and physical dimensions. The resistor shall meet the interface and physical dimensions as specified in [MIL-PRF-83401](#) and herein (see [figure 1](#)). For dash number 06, the seat height is 0.350 inch max.

3.3 Electrical characteristics.

3.3.1 Resistance. The resistance value shall be as specified on [figure 2](#).

3.3.2 Resistance tolerance. The resistance tolerance shall as specified on [figure 2](#).

3.3.3 Resistor power rating. The resistor power rating for individual resistors shall be 125 milliwatts (mW) maximum at 70°C derated to 0 watts at 150°C.

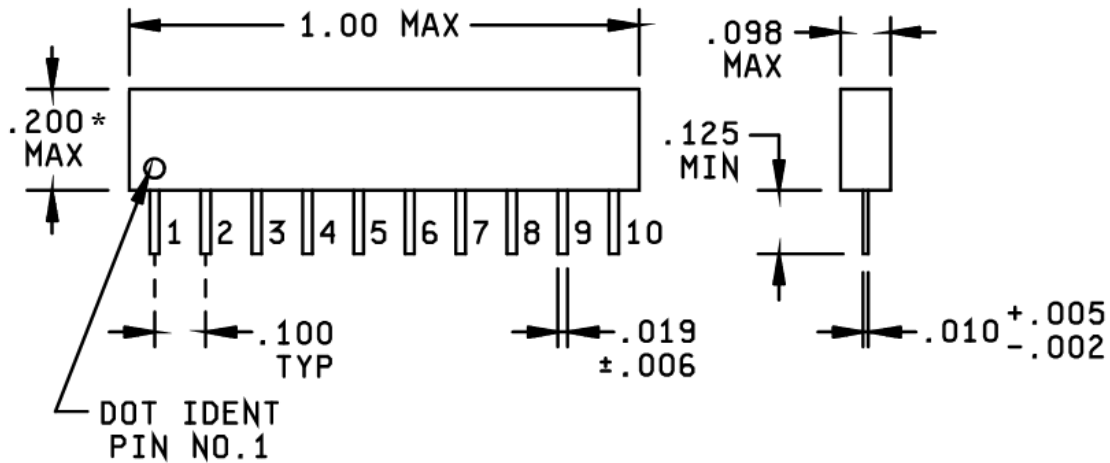
3.3.4 Package power rating. The package power rating shall not exceed the sum of the individual resistance element power rating in the network.

3.3.5 Operating voltage. Each resistor element shall have a maximum operating voltage of 100 V dc or ac rms.

3.3.6 Schematic. Resistor networks are available in schematics listed on [figure 2](#).

3.3.7 Resistance temperature characteristic. Unless otherwise specified, the resistance temperature characteristic shall be ±100 ppm/°C.

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* Dash number 06, the seat height is 0.350 inch max.

Inches	mm	Inches	mm	Inches	mm	Inches	mm
0.002	0.05	0.010	0.25	0.100	2.54	0.350	8.89
0.005	0.12	0.019	0.48	0.125	3.17	1.000	25.40
0.006	0.15	0.098	2.48	0.200	5.08		

NOTES:

- Dimensions are in inches.
- Metric equivalents are given for general information only.
- Unless otherwise specified, dimensional tolerances shall be ± 0.02 (0.5 mm) for two decimal places and ± 0.010 (0.25 mm) for three decimal places.
- The picturization of the styles 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.

FIGURE 1. Resistor network.

3.4 Characteristic. The characteristic shall be in accordance with MIL-PRF-83401, characteristic K.

3.5 Environmental requirements. The environmental requirements shall be in accordance with MIL-PRF-83401, characteristic K.

3.6 Marking. Marking shall be in accordance with MIL-STD-1285 except the networks shall be marked with the PIN as specified herein (see 1.2), the manufacturer's name or Commercial and Government Entity (CAGE) code, and date lot codes.

3.7 Manufacturer eligibility. To be eligible for listing as an approved source of supply, a manufacturer shall be listed on the MIL-PRF-83401 Qualified Products List for at least one part, or perform the group A and group B inspections specified herein on a sample of parts agreed upon by the manufacturer and DLA Land and Maritime - VAT.

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

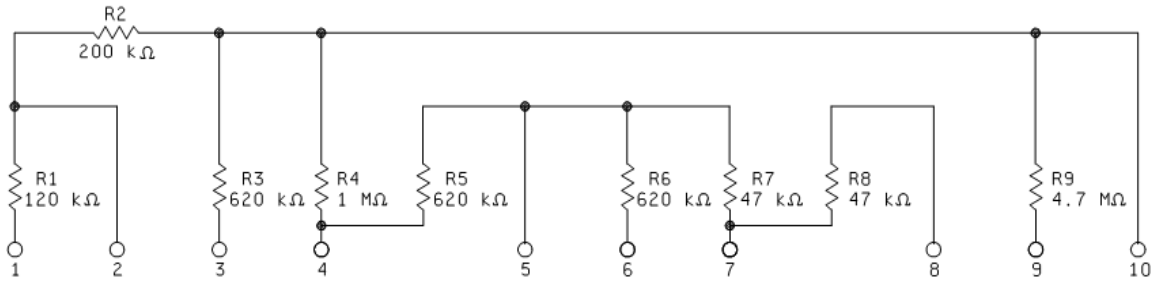
3.8 Pure tin. The use of pure tin, as an underplate or final finish, is prohibited both internally and externally. Tin content of resistor components and solder shall not exceed 97 percent, by mass. Tin shall be alloyed with a minimum of 3 percent lead, by mass (see 6.3).

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3.9 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.

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

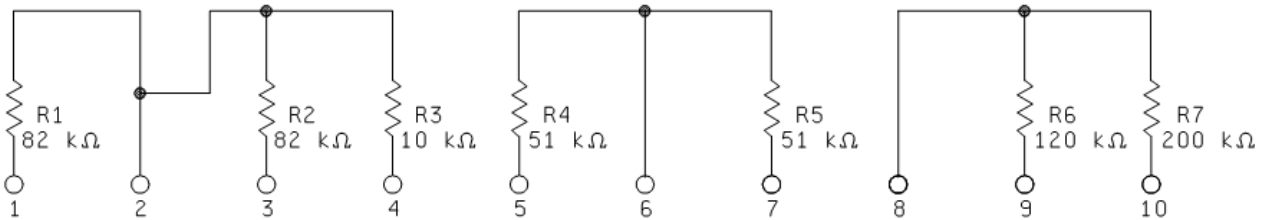
SCHEMATIC - 01



NOTES:

1. Resistance tolerance for shall be ± 2 percent, except for R9 which shall be ± 10 percent.
2. R1 through R8 resistor temperature coefficient tracking shall be ± 100 ppm/ $^{\circ}$ C maximum.
3. k Ω = kilohms, M Ω = megohms.

SCHEMATIC - 02



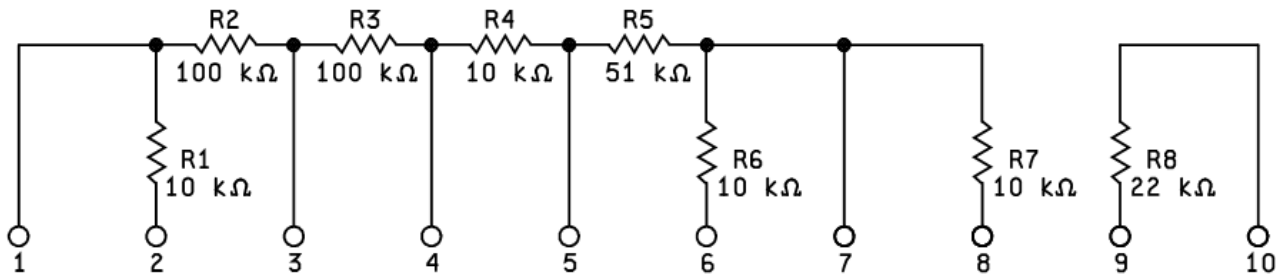
NOTES:

1. Resistance tolerance for shall be ± 2 percent.
2. R1 through R7 resistor temperature coefficient tracking shall be ± 100 ppm/ $^{\circ}$ C maximum.
3. k Ω = kilohms.

FIGURE 2. Schematic, resistance and tolerance.

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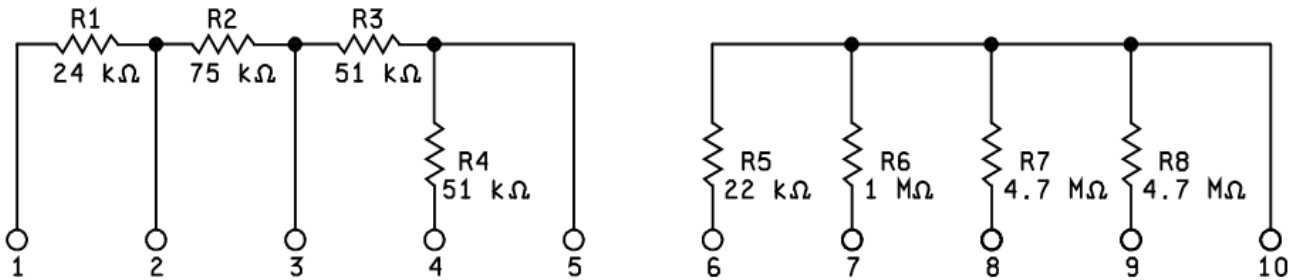
SCHEMATIC - 03



NOTES:

1. Resistance tolerance for shall be ± 2 percent.
2. R2 through R6 resistor temperature coefficient tracking shall be ± 100 ppm/ $^{\circ}\text{C}$ maximum.
3. $\text{k}\Omega$ = kilohms.

SCHEMATIC - 04



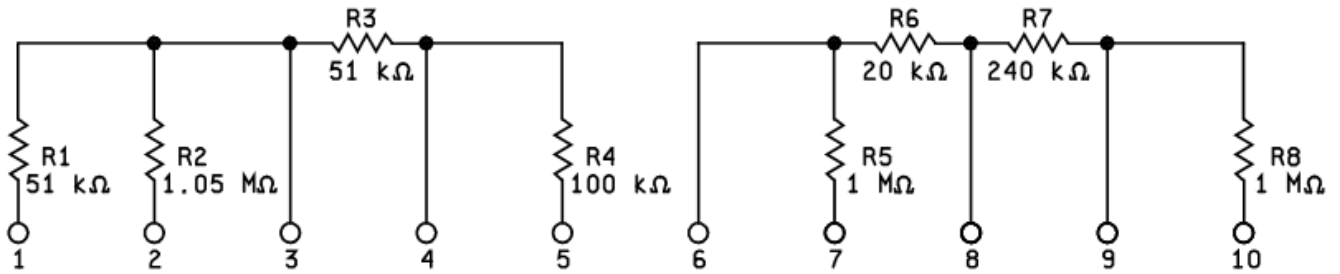
NOTES:

1. Resistance tolerance for R1 and R2 shall be ± 2 percent. R3 and R4 shall be ± 1 percent. R5 through R8 shall be ± 20 percent
2. Resistor temperature coefficient for R1 through R5 shall be ± 100 ppm/ $^{\circ}\text{C}$ maximum. R6 through R8 shall be ± 200 ppm/ $^{\circ}\text{C}$.
3. Resistor temperature coefficient tracking for R1 through R5 shall be ± 50 ppm/ $^{\circ}\text{C}$ maximum
4. $\text{k}\Omega$ = kilohms, $\text{M}\Omega$ = megohms.

FIGURE 2. Schematic, resistance and tolerance. - Continued

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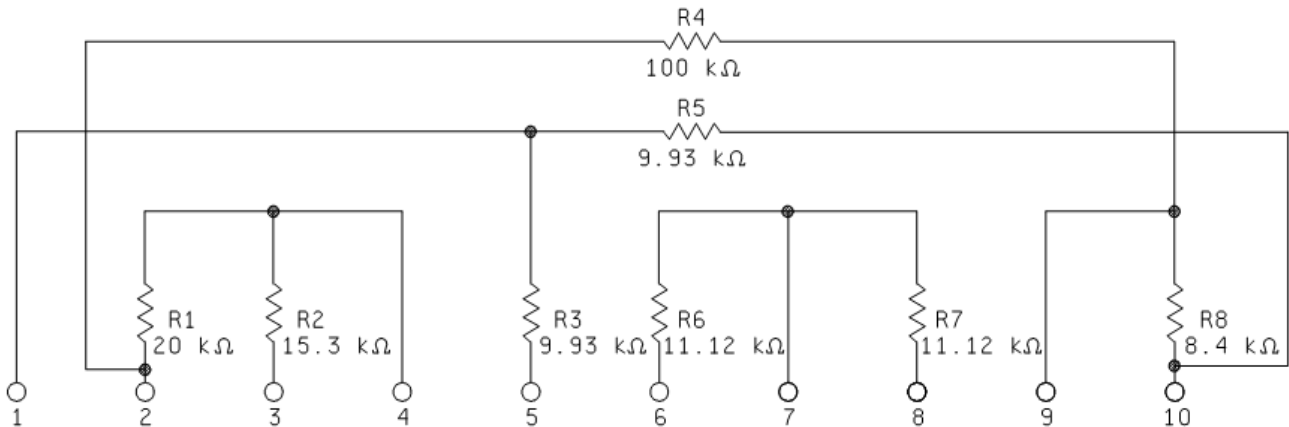
SCHMATIC - 05



NOTES:

1. Resistance tolerance for R1, R2 and R8 shall be ± 1 percent. R3 through R7 shall be ± 2 percent.
2. Resistor temperature coefficient for R1, R3, R4, R6 and R7 shall be ± 100 ppm/ $^{\circ}$ C maximum. R2, R5, and R8 shall be ± 200 ppm/ $^{\circ}$ C.
3. Resistor temperature coefficient tracking for R1 through R5 and R8 shall be ± 100 ppm/ $^{\circ}$ C maximum
4. k Ω = kilohms, M Ω = kilohms.

SCHMATIC - 06



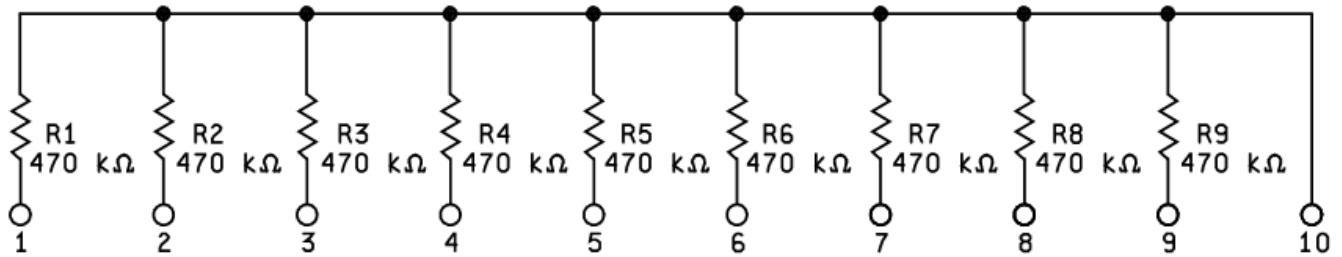
NOTES:

1. Resistance tolerance for shall be ± 1 percent.
2. Resistor temperature coefficient shall be ± 100 ppm/ $^{\circ}$ C maximum.
3. Ω = ohms, k Ω = kilohms.

FIGURE 2. Schematic, resistance and tolerance - Continued.

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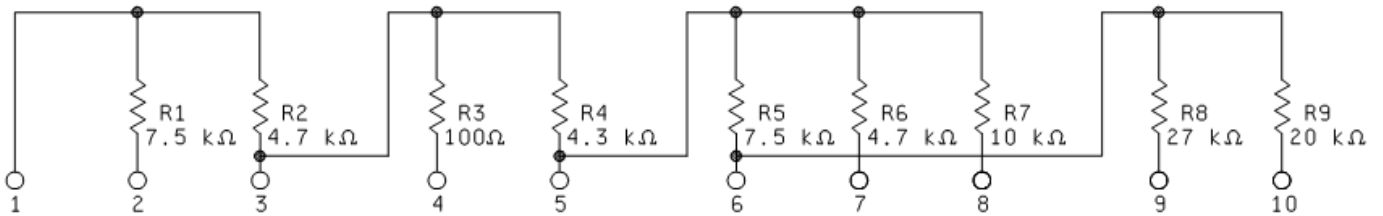
SCHEMATIC - 07



NOTES:

1. Resistance tolerance shall be ± 3 percent.
2. Resistor temperature coefficient shall be ± 200 ppm/ $^{\circ}$ C.
3. Power rating shall be 20 mW at $+120^{\circ}$ C.
4. k Ω = kilohms.

SCHEMATIC - 08



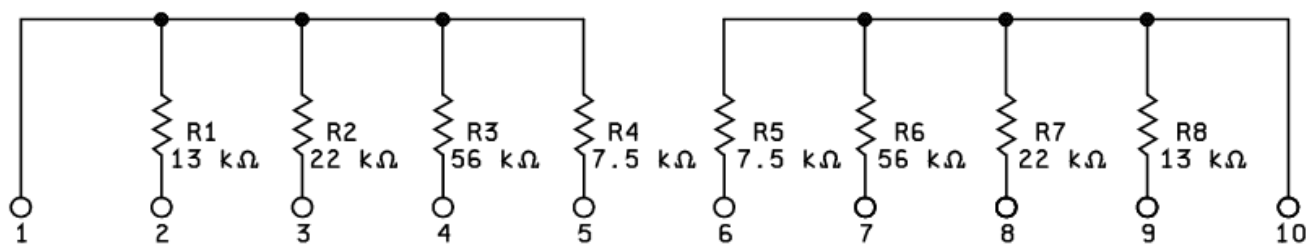
NOTES:

1. Resistance tolerance shall be ± 3 percent.
2. Resistor temperature coefficient shall be ± 200 ppm/ $^{\circ}$ C maximum.
3. R3 power rating shall be 40 mW at $+120^{\circ}$ C. R1, R2, R4 through R9 power ratings shall be 25 mW at $+120^{\circ}$ C.
4. Ω = ohms, k Ω = kilohms.

FIGURE 2. Schematic, resistance and tolerance - Continued.

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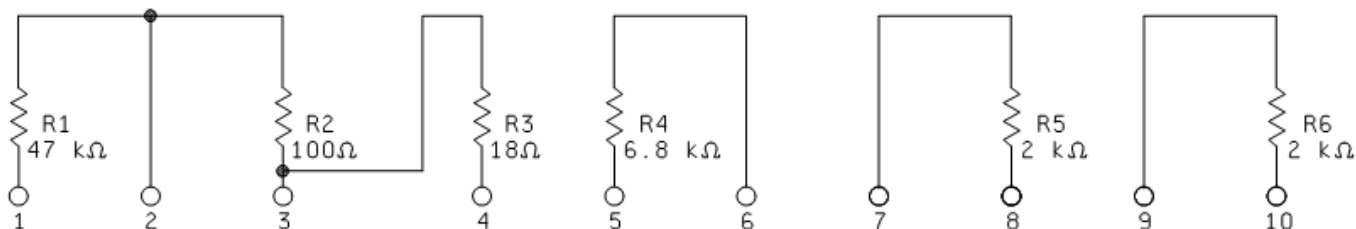
SCHEMATIC - 09



NOTES:

1. Resistance tolerance shall be ± 1 percent.
2. Resistor temperature coefficient shall be ± 200 ppm/ $^{\circ}\text{C}$ maximum.
3. $\text{k}\Omega$ = kilohms.

SCHEMATIC - 10



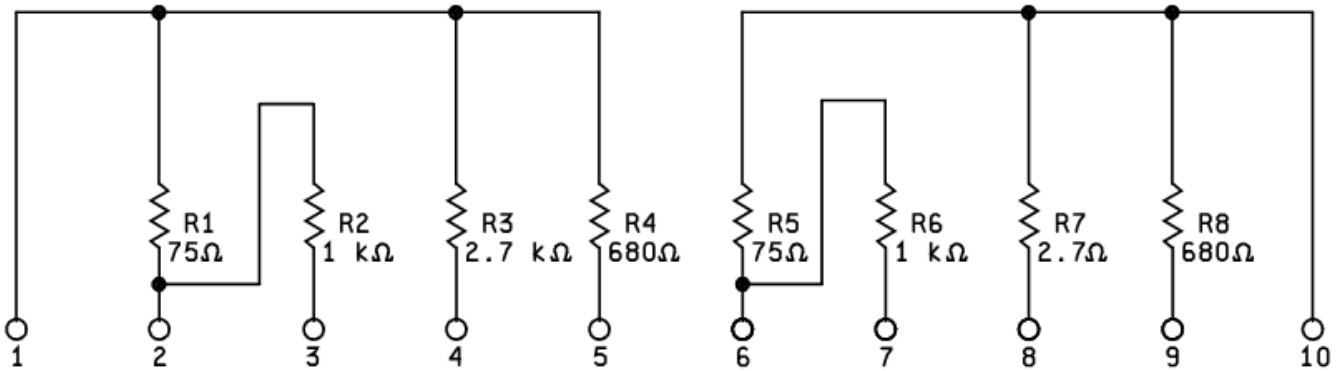
NOTES:

1. Resistance tolerance shall be ± 3 percent.
2. Resistor temperature coefficient shall be ± 200 ppm/ $^{\circ}\text{C}$ maximum.
3. R2 and R3 power rating shall be 60 mW at $+120^{\circ}\text{C}$. R1, R4 through R6 power ratings shall be 25 mW at $+120^{\circ}\text{C}$.
4. Ω = ohms, $\text{k}\Omega$ = kilohms.

FIGURE 2. Schematic, resistance and tolerance - Continued.

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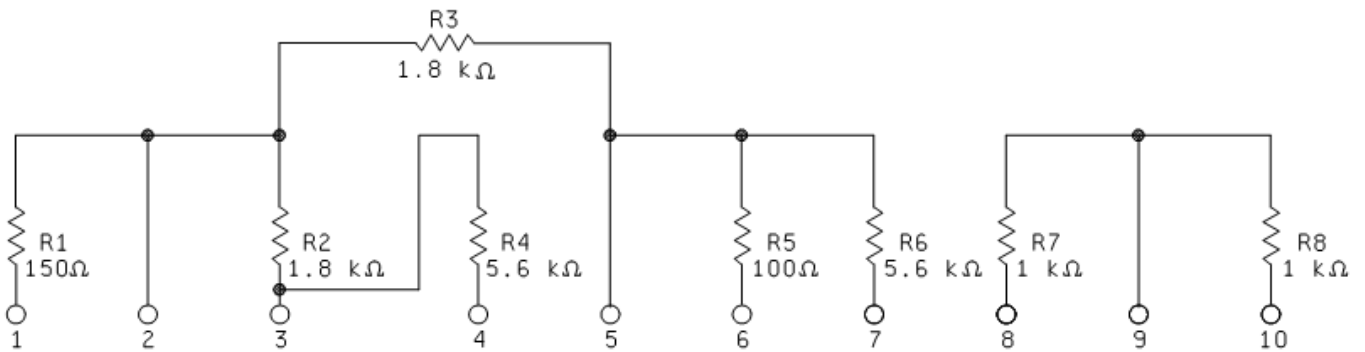
SCHMATIC - 11



NOTES:

1. Resistance tolerance shall be ± 3 percent.
2. Resistor temperature coefficient shall be ± 200 ppm/ $^{\circ}\text{C}$ maximum.
3. Ω = ohms, $\text{k}\Omega$ = kilohms.

SCHMATIC - 12



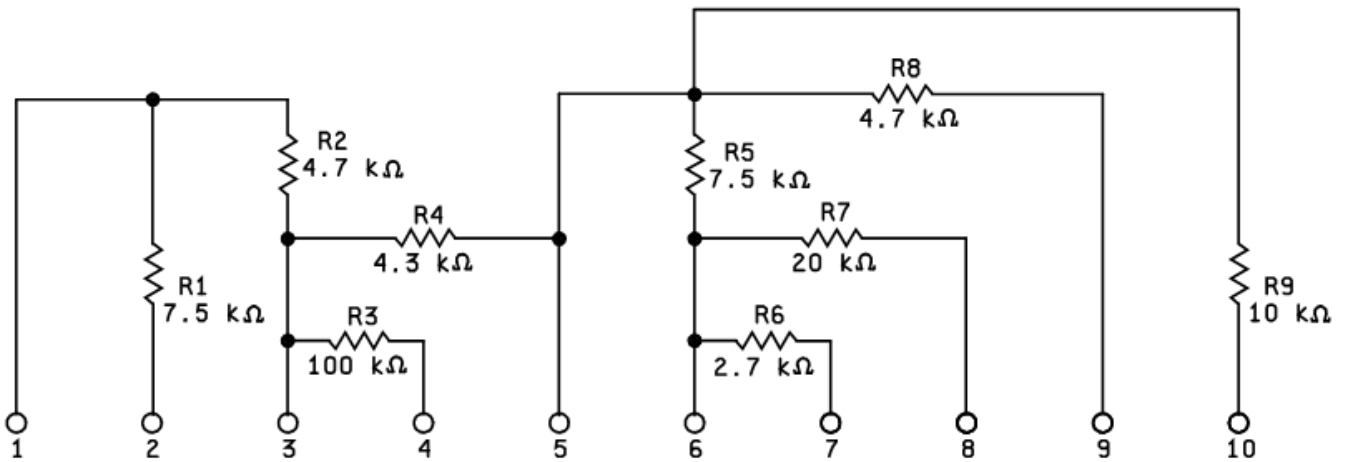
NOTES:

1. Resistance tolerance shall be ± 3 percent.
2. Resistor temperature coefficient shall be ± 200 ppm/ $^{\circ}\text{C}$ maximum.
3. R1 and R5 power rating shall be 60 mW at $+120^{\circ}\text{C}$. R2, R3, R4, R6, R7, and R8 power ratings shall be 25 mW at $+120^{\circ}\text{C}$.
4. Ω = ohms, $\text{k}\Omega$ = kilohms.

FIGURE 2. Schematic, resistance and tolerance - Continued.

DEFENSE ELECTRONIC SUPPLY CENTER DAYTON, OHIO	SIZE A	CAGE CODE 14933	DWG NO. 87071
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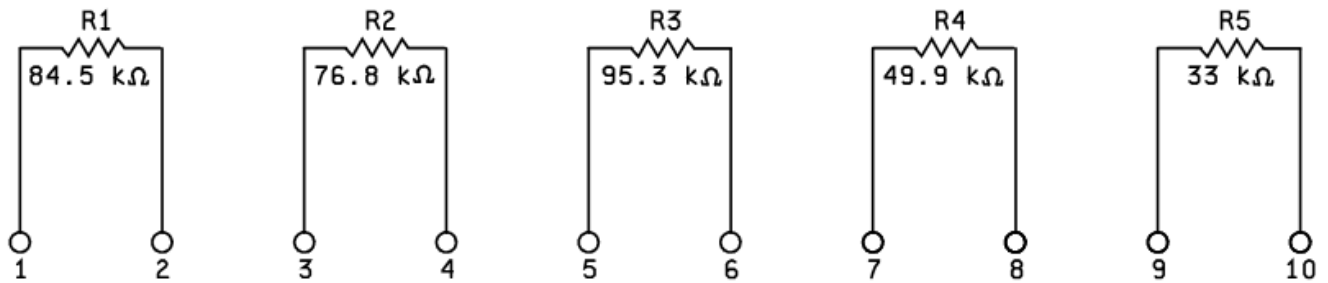
SCHEMATIC - 13



NOTES:

1. Resistance tolerance shall be ± 3 percent.
2. Resistor temperature coefficient shall be ± 200 ppm/ $^{\circ}$ C maximum.
3. R3 power rating shall be 40 mW at $+120^{\circ}$ C. R1, R2, R4, through R9 power ratings shall be 25 mW at $+120^{\circ}$ C.
4. Ω = ohms, k Ω = kilohms.

SCHEMATIC - 14



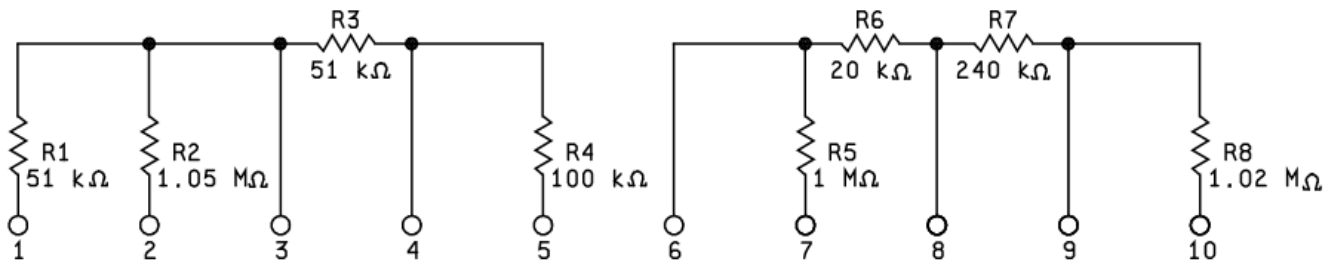
NOTES:

1. Resistance tolerance shall be ± 1 percent.
2. Resistor temperature coefficient shall be ± 100 ppm/ $^{\circ}$ C maximum.
3. k Ω = kilohms.

FIGURE 2. Schematic, resistance and tolerance - Continued.

DEFENSE ELECTRONIC SUPPLY CENTER DAYTON, OHIO	SIZE A	CAGE CODE 14933	DWG NO. 87071
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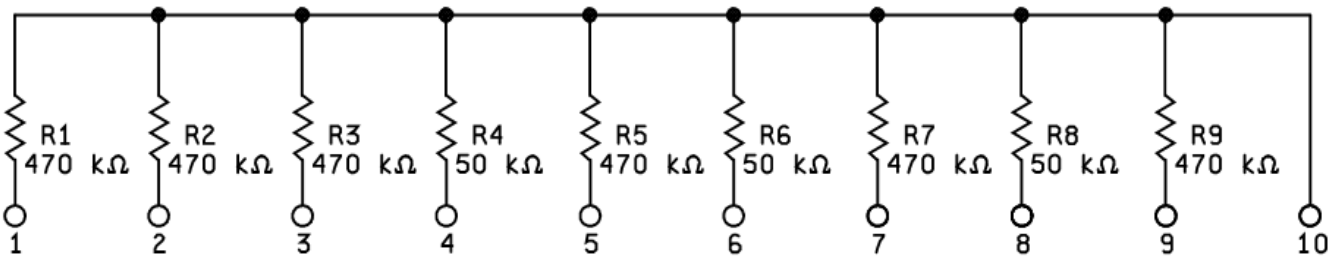
SCHEMATIC - 15



NOTES:

1. Resistance tolerance for R1, R2 and R8 shall be ± 1 percent. R3 through R7 shall be ± 2 percent.
2. Resistor temperature coefficient for R1, R3, R4, R6 and R7 shall be ± 100 ppm/ $^{\circ}$ C maximum. R2, R5, and R8 shall be ± 200 ppm/ $^{\circ}$ C.
3. Resistor temperature coefficient tracking shall be ± 100 ppm/ $^{\circ}$ C maximum.
4. k Ω = kilohms, M Ω = megohms.

SCHEMATIC - 16



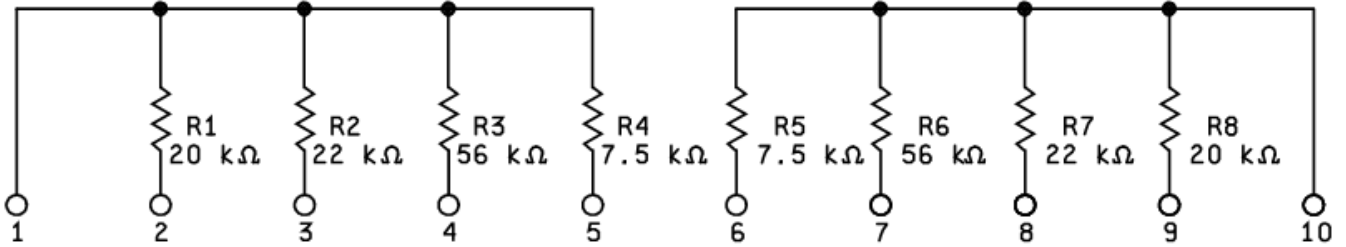
NOTES:

1. Resistance tolerance shall be ± 3 percent.
2. Resistor temperature coefficient shall be ± 200 ppm/ $^{\circ}$ C maximum.
3. R1, R2, R3, R5, R7 and R9 power rating shall be 40 mW at $+120^{\circ}$ C. R4, R6, and R8 power ratings shall be 130 mW at $+120^{\circ}$ C.
4. k Ω = kilohms.

FIGURE 2. Schematic, resistance and tolerance - Continued.

DEFENSE ELECTRONIC SUPPLY CENTER DAYTON, OHIO	SIZE A	CAGE CODE 14933	DWG NO. 87071
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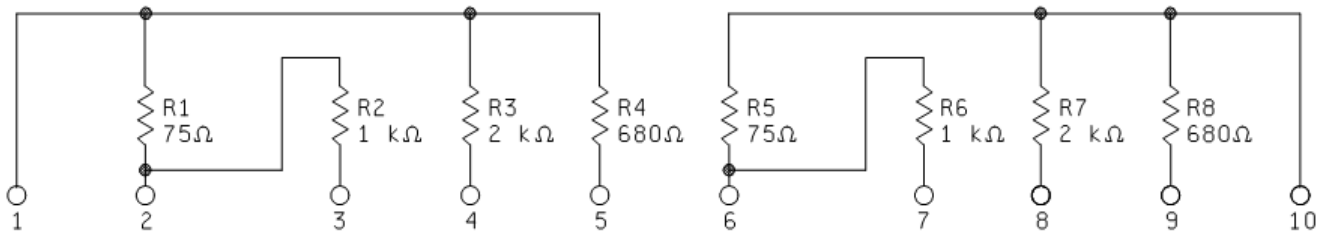
SCHEMATIC - 17



NOTES:

1. Resistance tolerance shall be ± 3 percent.
2. Resistor temperature coefficient shall be ± 200 ppm/ $^{\circ}\text{C}$ maximum.
3. k Ω = kilohms.

SCHEMATIC - 18



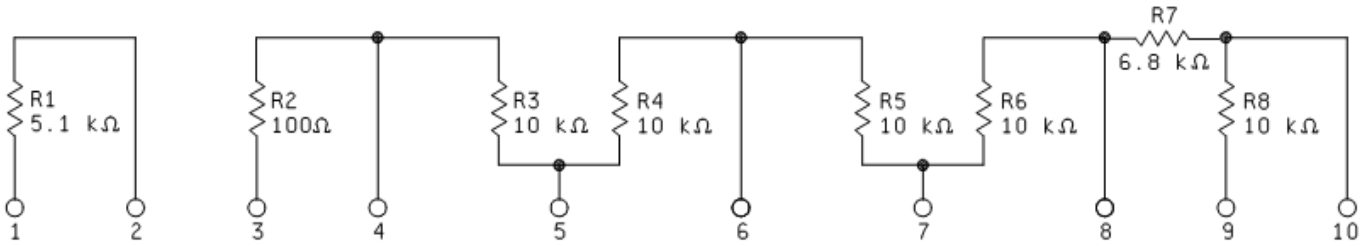
NOTES:

1. Resistance tolerance shall be ± 3 percent.
2. Resistor temperature coefficient shall be ± 200 ppm/ $^{\circ}\text{C}$ maximum.
3. Ω = ohms, k Ω = kilohms.

FIGURE 2. Schematic, resistance and tolerance - Continued.

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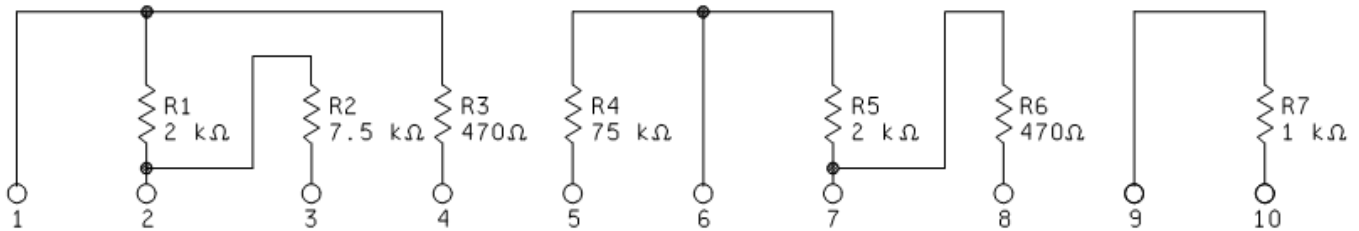
SCHEMATIC - 19



NOTES:

1. Resistance tolerance shall be ± 2 percent.
2. Resistor temperature coefficient shall be ± 200 ppm/ $^{\circ}\text{C}$ maximum.
3. Power rating shall be 25 mW at $+120^{\circ}\text{C}$.
4. Ω = ohms, $\text{k}\Omega$ = kilohms.

SCHEMATIC - 20



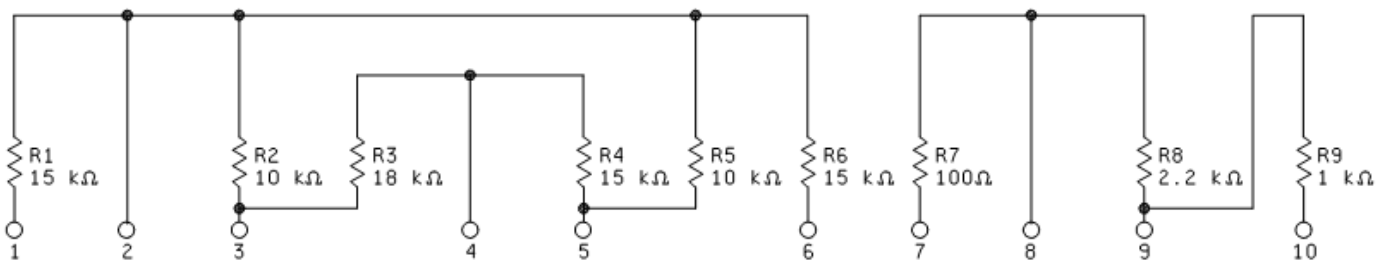
NOTES:

1. Resistance tolerance shall be ± 3 percent.
2. Resistor temperature coefficient shall be ± 200 ppm/ $^{\circ}\text{C}$ maximum.
3. R3, and R6 power rating shall be 60 mW at $+120^{\circ}\text{C}$. R1, R2, R4, R5, and R7 power ratings shall be 25 mW at $+120^{\circ}\text{C}$.
4. Ω = ohms, $\text{k}\Omega$ = kilohms.

FIGURE 2. Schematic, resistance and tolerance - Continued.

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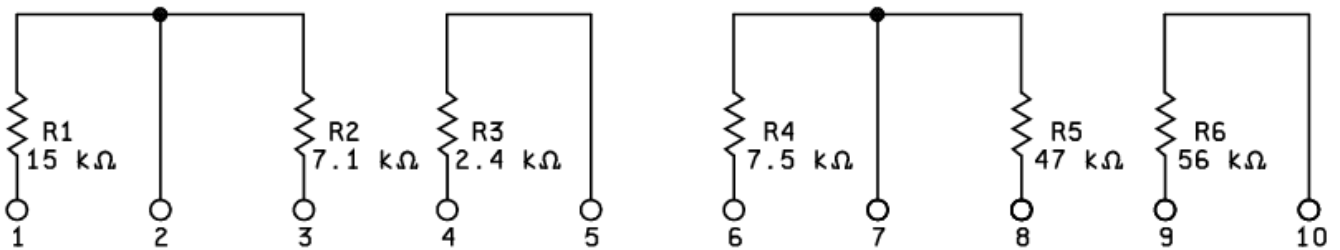
SCHEMATIC - 21



NOTES:

1. Resistance tolerance shall be ± 3 percent.
2. Resistor temperature coefficient shall be ± 200 ppm/ $^{\circ}\text{C}$ maximum.
3. R1 and R6 power rating shall be 60 mW at $+120^{\circ}\text{C}$. R2, R3, R4, R5, R7, R8, and R9 power ratings shall be 25 mW at $+120^{\circ}\text{C}$.
4. Ω = ohms, $\text{k}\Omega$ = kilohms.

SCHEMATIC - 22



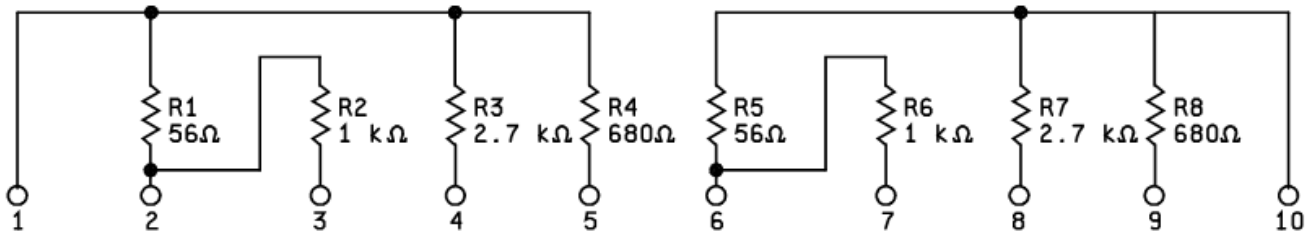
NOTES:

1. Resistance tolerance shall be ± 3 percent.
2. Resistor temperature coefficient shall be ± 200 ppm/ $^{\circ}\text{C}$ maximum.
3. Power rating shall be 25 mW at $+120^{\circ}\text{C}$.
4. Ω = ohms, $\text{k}\Omega$ = kilohms.

FIGURE 2. Schematic, resistance and tolerance - Continued.

DEFENSE ELECTRONIC SUPPLY CENTER DAYTON, OHIO	SIZE A	CAGE CODE 14933	DWG NO. 87071
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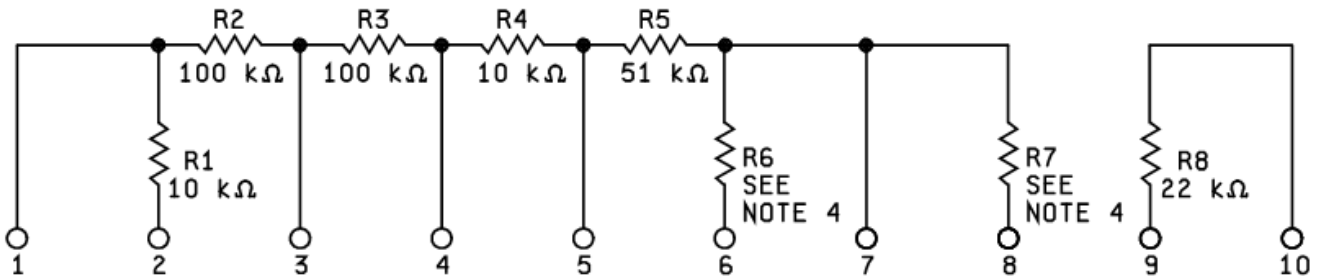
SCHEMATIC - 23



NOTES:

1. Resistance tolerance shall be ± 3 percent.
2. Resistor temperature coefficient shall be ± 200 ppm/ $^{\circ}$ C maximum.
3. Ω = ohms, $k\Omega$ = kilohms.

SCHEMATIC - 24



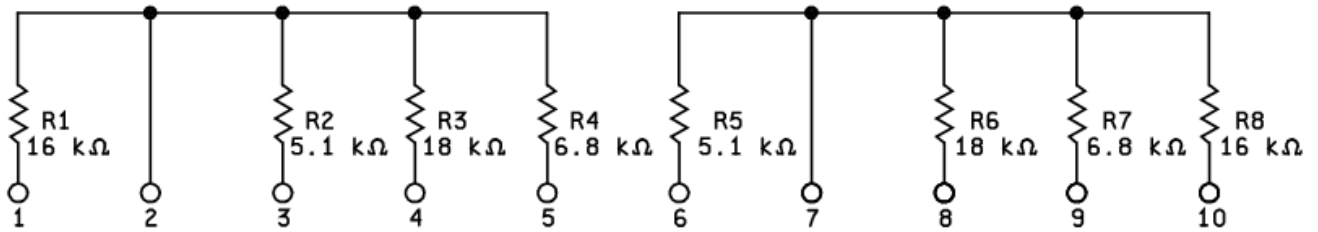
NOTES:

1. Resistance tolerance shall be ± 2 percent.
2. Resistor temperature coefficient tracking for R2, R3, R4, and R5 shall be ± 100 ppm/ $^{\circ}$ C maximum.
3. $k\Omega$ = kilohms, $M\Omega$ = megohms.
4. Resistor values of R6 and R7 shall not exceed 2 ohms when measured over the operating temperature range.

FIGURE 2. Schematic, resistance and tolerance - Continued.

DEFENSE ELECTRONIC SUPPLY CENTER DAYTON, OHIO	SIZE A	CAGE CODE 14933	DWG NO. 87071
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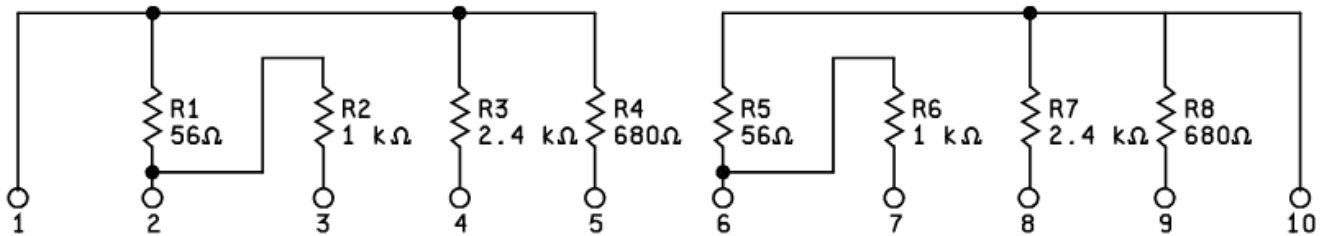
SCHEMATIC - 25



NOTES:

1. Resistance tolerance shall be ± 3 percent.
2. Resistor temperature coefficient shall be ± 200 ppm/ $^{\circ}$ C maximum.
3. Power rating shall be 25 mW at $+120^{\circ}$ C.
4. Ω = ohms, k Ω = kilohms.

SCHEMATIC - 26



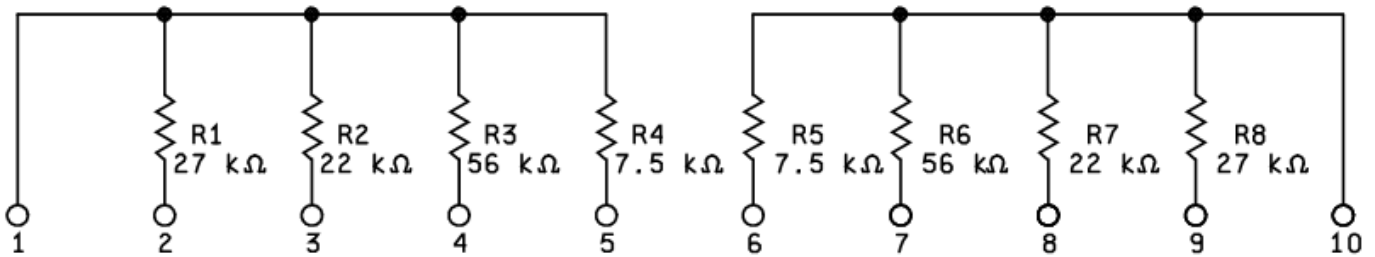
NOTES:

1. Resistance tolerance shall be ± 3 percent.
2. Resistor temperature coefficient shall be ± 200 ppm/ $^{\circ}$ C maximum.
3. Ω = ohms, k Ω = kilohms.

FIGURE 2. Schematic, resistance and tolerance - Continued.

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SCHEMATIC - 27



NOTES:

1. Resistance tolerance shall be ± 3 percent.
2. Resistor temperature coefficient shall be ± 200 ppm/ $^{\circ}$ C maximum.
3. k Ω = kilohms.

FIGURE 2. Schematic, resistance and tolerance - Continued.

4. VERIFICATION

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

4.2 Conformance inspections.

4.2.1 Inspection of product for delivery. Inspection of product for delivery shall consist of group A and group B inspections of [MIL-PRF-83401](#)

4.2.2 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).

4.3 Inspection of packaging. Inspection of packaging shall be in accordance with [MIL-PRF-83401](#).

4.4 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-83401](#).

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 activities within the Military Service 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.

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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 DLA land and Maritime CAGE CODE (037Z3) and 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. (i.e. ESD sensitive packaging).
- d. Whether the manufacturer performs the group B tests or provides certification of compliance with group B requirements.

6.3 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.

6.4 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 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-VAT, Post Office Box 3990, Columbus, OH 43218-3990 or by telephone (614) 692-4546 or DSN 850-4546.

6.6 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-VAT, Post Office Box 3990, Columbus, OH 43218-3990 or by telephone (614) 692-4546 or DSN 850-4546

DLA Land and Maritime drawing PIN 87071-**	Vendors similar designation or type number ^{1/}	Vendor CAGE	Vendor's name and address
All schematics	10SM-****-FX	91637	Vishay Techno P.O. Box 609, 1122 23rd St., Columbus, NE 68602-0609 https://www.vishay.com/
Schematics: 06, 07, 08, 09, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 21, 22, 23, 25, 26, and 27	MSP10 or CSC10		Vishay Dale P.O. Box 609, 1122 23rd St., Columbus, NE 68602-0609 https://www.vishay.com/

^{1/} Parts must be purchased to the DLA Land and Maritime CAGE CODE (037Z3) and PIN to assure that all performance and test requirements are met.

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