

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	Added suggested sources of supply; made editorial changes.	25 Sep 87	D. Moore
B	Added suggested sources of supply.	11 May 88	D. Moore
C	Deleted and added suggested sources of supply. Editorial changes throughout.	8 Oct 92	D. Moore
D	Added suggested sources of supply. Changes to manufacturer PIN. Changes to paragraphs 3.2.2, 3.2.6, and 6.1. Editorial changes throughout.	23 Feb 94	D. Moore
E	Changes in accordance with NOR 5910-R004-96	23 May 96	A. Ernst
F	Revised sources of supply, added alternate marking method, made editorial changes, and converted references to MIL-PRF-49467.	5 April 99	J. Crum
G	Moved solderability testing from group A to group B. Updated suggested sources of supply.	10 April 00	Kendall A. Cottongim
H	Removed suggested source of supply. Added note 4 to figure 1. Added capacitor tolerance note to 3.2.9.	16 January 01	Kendall A. Cottongim
J	Added suggested source of supply. Changed Johanson Dielectrics CAGE code.	12 September 01	Kendall A. Cottongim
K	Updated name and address of vendor C.	4 November 02	Kendall A. Cottongim
L	Added Johanson Dielectrics as a suggested source of supply.	18 August 2004	Kendall A. Cottongim
M	Added CalRamic Technologies as a suggested source of supply.	19 April 2007	Michael A. Radecki
N	Changed drawing type to Source Control with approved sources. Added manufacturer eligibility criteria, paragraph 3.14. Added new paragraph 6.3. Added an approved source.	21 October 2010	Michael A. 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](#)

Source control drawing

REV STATUS OF PAGES	REV	N	N	N	N	N	N	N	N	N							
	PAGES	1	2	3	4	5	6	7	8	9							
PMIC N/A	PREPARED BY ROBERT E. GRILLOT							DEFENSE ELECTRONIC SUPPLY CENTER DAYTON, OH 45444-5000									
Original date of drawing 1 April 1987	CHECKED BY EDWARD H. BACK							TITLE CAPACITORS, CERAMIC, MULTILAYER, HIGH VOLTAGE, X7R, 1,000 V DC									
	APPROVED BY DAVID E. MOORE																
	SIZE A	CODE IDENT. NO. 14933					DWG NO. 87043										
	REV	N					PAGE 1 OF 9										

1. SCOPE

1.1 Scope. This drawing and [MIL-PRF-49467](#) describe the requirements for high voltage multilayer ceramic capacitors.

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



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 of 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 or contract.

DEPARTMENT OF DEFENSE SPECIFICATIONS

[MIL-PRF-49467](#) - Capacitor, Fixed, Ceramic, Multilayer, High Voltage (General Purpose), Established Reliability, General Specification for.

DEPARTMENT OF DEFENSE STANDARDS

[MIL-STD-202](#) - Test Methods Standard Electronics and Electrical Component Parts.
[MIL-STD-1285](#) - Marking of Electrical and Electronic Parts.

(Copies of these documents are available online at <https://assist.daps.dla.mil/quicksearch/> or <https://www.assist.daps.dla.mil/> or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.)

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, 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 Interface and physical dimensions. The interface and physical dimensions shall be as specified in [MIL-PRF-49467](#) and herein (see figure 1).

3.1.1 Leads. Leads shall be solder coated. Tin-lead (Sn-Pb) finishes are acceptable provided that the minimum lead content is 3 percent.

3.1.2 Case. Epoxy, conformally coated.

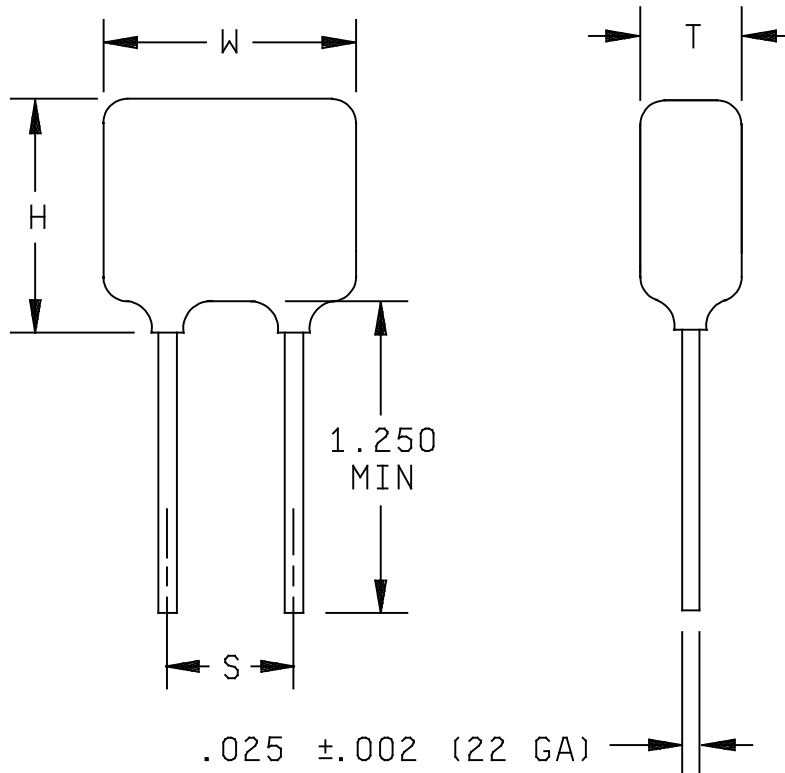
3.1.3 Operating temperature range. The operating temperature range shall be -55°C to +125°C.

3.2 Electrical characteristics.

3.2.1 Rated voltage. The rated voltage shall be 1,000 volts dc.

3.2.2 Dielectric type. X7R.

DEFENSE ELECTRONICS SUPPLY CENTER	SIZE	CODE IDENT NO.	DWG NO.
DAYTON, OHIO	A	14933	87043
		REV N	PAGE 2



Case code	Sizes (max.)			Lead spacing ± .030 (S)
	Width (W)	Height (H)	Thickness (T)	
A	.250	.220	.200	.170
B	.320	.280	.250	.220
C	.370	.300	.250	.275
D	.470	.400	.270	.375
E	.570	.500	.270	.475
F	.670	.600	.270	.575
G	.770	.720	.270	.675

Inches	mm	Inches	mm
.002	0.05	.375	9.53
.025	0.64	.400	10.16
.030	0.76	.470	11.94
.170	4.32	.475	12.07
.200	5.08	.500	12.70
.220	5.59	.570	14.48
.250	6.35	.575	14.61
.270	6.86	.600	15.24
.275	6.99	.670	17.02
.280	7.11	.675	17.15
.300	7.62	.720	18.29
.320	8.13	.770	19.56
.370	9.40	1.250	31.75

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. H dimension includes meniscus.
4. S dimension shall be maintained from chip body to end of leads.

FIGURE 1. Case dimensions and configuration.

DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO	SIZE A	CODE IDENT NO. 14933	DWG NO. 87043
		REV N	PAGE 3

- 3.2.3 Temperature coefficient. ± 15 percent. (For [MIL-PRF-49467](#) group B voltage temperature limits, use step a through step d only.)
- 3.2.4 Capacitance. See table I. Measured in accordance with [method 305 of MIL-STD-202](#), 1 kHz at 1.0 V rms at $+25^{\circ}\text{C}$.
- 3.2.5 Dissipation factor ($+25^{\circ}\text{C}$). 2.5 percent maximum (measured under the same conditions as capacitance).
- 3.2.6 Insulation resistance. Measured in accordance with [method 302 of MIL-STD-202](#). At $+25^{\circ}\text{C}$, 500 V dc: 100,000 megohms or 1,000 megohms microfarad, whichever is less. At $+125^{\circ}\text{C}$, 500 V dc: 10,000 megohms or 100 megohms microfarad, whichever is less.
- 3.2.7 Dielectric withstanding voltage. 1.2 times rated voltage.
- 3.2.8 Aging rate. -2.0 percent maximum per decade-hour.
- 3.2.9 Capacitance tolerance. K = ± 10 percent, M = ± 20 percent. K tolerance parts may be substituted for M tolerance parts, with acquiring activity approval.
- 3.3 Solderability of terminals. In accordance with [MIL-PRF-49467](#).
- 3.4 Vibration. In accordance with [MIL-PRF-49467](#).
- 3.5 Shock. In accordance with [MIL-PRF-49467](#).
- 3.6 Immersion cycling. In accordance with [MIL-PRF-49467](#).
- 3.7 Moisture resistance. In accordance with [MIL-PRF-49467](#).
- 3.8 Life. One hundred percent of rated voltage applied at $+125^{\circ}\text{C}$ for 1,000 hours. Resistors with a high value such as 1 megohm may be used in series with each part under test in lieu of fuses.
- 3.9 Thermal shock. [Method 107, MIL-STD-202](#), test condition B except low temperature is -55°C .
- 3.10 Voltage conditioning. In accordance with [MIL-PRF-49467](#), 100 percent of rated voltage. Resistors with a high value such as 1 megohm may be used in series with each part under test in lieu of fuses.
- 3.11 Terminal strength. In accordance with [MIL-PRF-49467](#).
- 3.12 Marking. Marking shall be in accordance with [MIL-STD-1285](#) except the capacitors shall be marked with the PIN as specified in 1.2, the manufacturer's name or Commercial and Government Entity (CAGE) code, and date lot code as a minimum. Case codes A, B, and C (at the option of the manufacturer) may be marked as indicated below with full marking on the package.

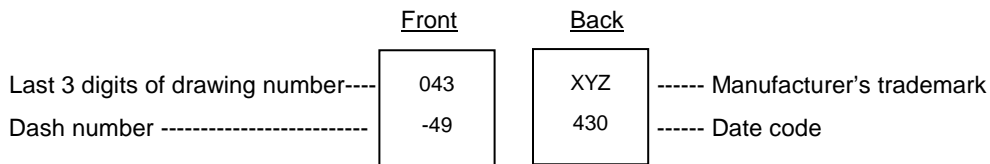


FIGURE 2. Alternate marking method for A, B, and C case codes.

- 3.13 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.
- 3.14 Manufacturer eligibility. To be eligible for listing as an approved source of supply, a manufacturer shall be listed on the [MIL-PRF-49467](#) Qualified Products Database for at least one part, or provide data as requested by DLA Land and Maritime – VAT.
- 3.15 Certificate of compliance. A certificate of compliance shall be required from manufacturers requesting to be an approved source of supply.

DEFENSE ELECTRONICS SUPPLY CENTER	SIZE	CODE IDENT NO.	DWG NO.
DAYTON, OHIO	A	14933	87043
		REV N	PAGE 4

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

TABLE I. Electrical characteristics

DSCC drawing 87043-	Capacitance	Capacitance tolerance	Case code	DSCC drawing 87043-	Capacitance	Capacitance tolerance	Case code
01	100 pF	K	A	46	6800 pF	M	A
02	100 pF	M	A	47	8200 pF	K	A
03	120 pF	K	A	48	8200 pF	M	A
04	120 pF	M	A	49	.01 μ F	K	A
05	150 pF	K	A	50	.01 μ F	M	A
06	150 pF	M	A	51	.012 μ F	K	B
07	180 pF	K	A	52	.012 μ F	M	B
08	180 pF	M	A	53	.015 μ F	K	B
09	220 pF	K	A	54	.015 μ F	M	B
10	220 pF	M	A	55	.018 μ F	K	B
11	270 pF	K	A	56	.018 μ F	M	B
12	270 pF	M	A	57	.022 μ F	K	B
13	330 pF	K	A	58	.022 μ F	M	B
14	330 pF	M	A	59	.027 μ F	K	C
15	390 pF	K	A	60	.027 μ F	M	C
16	390 pF	M	A	61	.033 μ F	K	D
17	470 pF	K	A	62	.033 μ F	M	D
18	470 pF	M	A	63	.039 μ F	K	D
19	560 pF	K	A	64	.039 μ F	M	D
20	560 pF	M	A	65	.047 μ F	K	D
21	680 pF	K	A	66	.047 μ F	M	D
22	680 pF	M	A	67	.056 μ F	K	D
23	820 pF	K	A	68	.056 μ F	M	D
24	820 pF	M	A	69	.068 μ F	K	D
25	1000 pF	K	A	70	.068 μ F	M	D
26	1000 pF	M	A	71	.082 μ F	K	E
27	1200 pF	K	A	72	.082 μ F	M	E
28	1200 pF	M	A	73	.10 μ F	K	E
29	1500 pF	K	A	74	.10 μ F	M	E
30	1500 pF	M	A	75	.12 μ F	K	E
31	1800 pF	K	A	76	.12 μ F	M	E
32	1800 pF	M	A	77	.15 μ F	K	E
33	2200 pF	K	A	78	.15 μ F	M	E
34	2200 pF	M	A	79	.18 μ F	K	F
35	2700 pF	K	A	80	.18 μ F	M	F
36	2700 pF	M	A	81	.22 μ F	K	F
37	3300 pF	K	A	82	.22 μ F	M	F
38	3300 pF	M	A	83	.27 μ F	K	F
39	3900 pF	K	A	84	.27 μ F	M	F
40	3900 pF	M	A	85	.33 μ F	K	G
41	4700 pF	K	A	86	.33 μ F	M	G
42	4700 pF	M	A	87	.39 μ F	K	G
43	5600 pF	K	A	88	.39 μ F	M	G
44	5600 pF	M	A	89	.47 μ F	K	G
45	6800 pF	K	A	90	.47 μ F	M	G

DEFENSE ELECTRONICS SUPPLY CENTER	SIZE	CODE IDENT NO.	DWG NO.
DAYTON, OHIO	A	14933	87043
		REV N	PAGE 5

4. VERIFICATION

4.1 Qualification inspection. Qualification inspection is not required.

4.2 Conformance inspection.

4.2.1 Inspection of product for delivery. Inspection of product for delivery shall consist of all tests specified in group A and group B inspections of MIL-PRF-49467, provided they are listed in this drawing. PPM testing and calculation is not applicable. Solderability testing shall be performed as a separate subgroup of group B inspection with a sample size of 3 units and 0 defectives permitted.

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).

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.

6. NOTES

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

6.1 Intended use. Capacitors 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 original equipment manufacturer application. This drawing is intended exclusively to prevent the proliferation of unnecessary duplicate specifications, drawings, and stock catalog listings. When a military specification exists and the product covered by this drawing has been qualified for listing, this drawing becomes obsolete and will not be used for new design.

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.
- d. Whether the manufacturer performs the group B tests or provides certification of compliance with group B requirements.
- e. Requirements for notification of change of product to procuring activity, if applicable.

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 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 Coating of Tin).

6.4 Replaceability. Capacitors covered by this drawing will replace the same commercial device covered by contractor prepared specification or drawing.

6.5 Users of record. Coordination of this document for future revisions is coordinated only with the approved 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: DLA Land and Maritime, ATTN: VAT, Post Office Box 3990, Columbus, OH 43218-3990 or e-mailed to capacitorfilter@dla.mil also by telephone (614) 692-4709 or DSN 850-4709.

DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO	SIZE A	CODE IDENT NO. 14933	DWG NO. 87043
		REV N	PAGE 6

**DEFENSE ELECTRONICS SUPPLY CENTER
DAYTON, OHIO**

**SIZE
A**

**CODE IDENT NO.
14933**

**DWG NO.
87043**

REV N

**PAGE
7**

^{1/} DSCC drawing PIN 87043-	Vendor A similar vendor type	Vendor B similar vendor type	Vendor C and J similar vendor type	Vendor D similar vendor type	Vendor E similar vendor type	Vendor F similar vendor type	Vendor similar vendor type
01	SV01AC101KHA	1515CX101KA102	102H42W101KQ3H	UTC4124-01	126449-01	PCI1556-01	1515N101K1
02	SV01AC101MHA	1515CX101MA102	102H42W101MQ3H	UTC4124-02	126449-02	PCI1556-02	1515N101M1
03	SV01AC121KHA	1515CX121KA102	102H42W121KQ3H	UTC4124-03	126449-03	PCI1556-03	1515N121K1
04	SV01AC121MHA	1515CX121MA102	102H42W121MQ3H	UTC4124-04	126449-04	PCI1556-04	1515N121M1
05	SV01AC151KHA	1515CX151KA102	102H42W151KQ3H	UTC4124-05	126449-05	PCI1556-05	1515N151K1
06	SV01AC151MHA	1515CX151MA102	102H42W151MQ3H	UTC4124-06	126449-06	PCI1556-06	1515N151M1
07	SV01AC181KHA	1515CX181KA102	102H42W181KQ3H	UTC4124-07	126449-07	PCI1556-07	1515N181K1
08	SV01AC181MHA	1515CX181MA102	102H42W181MQ3H	UTC4124-08	126449-08	PCI1556-08	1515N181M1
09	SV01AC221KHA	1515CX221KA102	102H42W221KQ3H	UTC4124-09	126449-09	PCI1556-09	1515N221K1
10	SV01AC221MHA	1515CX221MA102	102H42W221MQ3H	UTC4124-10	126449-10	PCI1556-10	1515N221M1
11	SV01AC271KHA	1515CX271KA102	102H42W271KQ3H	UTC4124-11	126449-11	PCI1556-11	1515N271K1
12	SV01AC271MHA	1515CX271MA102	102H42W271MQ3H	UTC4124-12	126449-12	PCI1556-12	1515N271M1
13	SV01AC331KHA	1515CX331KA102	102H42W331KQ3H	UTC4124-13	126449-13	PCI1556-13	1515B331K1
14	SV01AC331MHA	1515CX331MA102	102H42W331MQ3H	UTC4124-14	126449-14	PCI1556-14	1515B331M1
15	SV01AC391KHA	1515CX391KA102	102H42W391KQ3H	UTC4124-15	126449-15	PCI1556-15	1515B391K1
16	SV01AC391MHA	1515CX391MA102	102H42W391MQ3H	UTC4124-16	126449-16	PCI1556-16	1515B391M1
17	SV01AC471KHA	1515CX471KA102	102H42W471KQ3H	UTC4124-17	126449-17	PCI1556-17	1515B471K1
18	SV01AC471MHA	1515CX471MA102	102H42W471MQ3H	UTC4124-18	126449-18	PCI1556-18	1515B471M1
19	SV01AC561KHA	1515CX561KA102	102H42W561KQ3H	UTC4124-19	126449-19	PCI1556-19	1515B561K1
20	SV01AC561MHA	1515CX561MA102	102H42W561MQ3H	UTC4124-20	126449-20	PCI1556-20	1515B561M1
21	SV01AC681KHA	1515CX681KA102	102H42W681KQ3H	UTC4124-21	126449-21	PCI1556-21	1515B681K1
22	SV01AC681MHA	1515CX681MA102	102H42W681MQ3H	UTC4124-22	126449-22	PCI1556-22	1515B681M1
23	SV01AC821KHA	1515CX821KA102	102H42W821KQ3H	UTC4124-23	126449-23	PCI1556-23	1515B821K1
24	SV01AC821MHA	1515CX821MA102	102H42W821MQ3H	UTC4124-24	126449-24	PCI1556-24	1515B821M1
25	SV01AC102KHA	1515CX102KA102	102H42W102KQ3H	UTC4124-25	126449-25	PCI1556-25	1515B102K1
26	SV01AC102MHA	1515CX102MA102	102H42W102MQ3H	UTC4124-26	126449-26	PCI1556-26	1515B102M1
27	SV01AC122KHA	1515CX122KA102	102H42W122KQ3H	UTC4124-27	126449-27	PCI1556-27	1515B122K1
28	SV01AC122MHA	1515CX122MA102	102H42W122MQ3H	UTC4124-28	126449-28	PCI1556-28	1515B122M1
29	SV01AC152KHA	1515CX152KA102	102H42W152KQ3H	UTC4124-29	126449-29	PCI1556-29	1515B152K1
30	SV01AC152MHA	1515CX152MA102	102H42W152MQ3H	UTC4124-30	126449-30	PCI1556-30	1515B152M1
31	SV01AC182KHA	1515CX182KA102	102H42W182KQ3H	UTC4124-31	126449-31	PCI1556-31	1515B182K1
32	SV01AC182MHA	1515CX182MA102	102H42W182MQ3H	UTC4124-32	126449-32	PCI1556-32	1515B182M1
33	SV01AC222KHA	1515CX222KA102	102H42W222KQ3H	UTC4124-33	126449-33	PCI1556-33	1515B222K1
34	SV01AC222MHA	1515CX222MA102	102H42W222MQ3H	UTC4124-34	126449-34	PCI1556-34	1515B222M1
35	SV01AC272KHA	1515CX272KA102	102H42W272KQ3H	UTC4124-35	126449-35	PCI1556-35	1515B272K1
36	SV01AC272MHA	1515CX272MA102	102H42W272MQ3H	UTC4124-36	126449-36	PCI1556-36	1515B272M1
37	SV01AC332KHA	1515CX332KA102	102H42W332KQ3H	UTC4124-37	126449-37	PCI1556-37	1515B332K1
38	SV01AC332MHA	1515CX332MA102	102H42W332MQ3H	UTC4124-38	126449-38	PCI1556-38	1515B332M1
39	SV01AC392KHA	1515CX392KA102	102H42W392KQ3H	UTC4124-39	126449-39	PCI1556-39	1515B392K1
40	SV01AC392MHA	1515CX392MA102	102H42W392MQ3H	UTC4124-40	126449-40	PCI1556-40	1515B392M1
41	SV01AC472KHA	1515CX472KA102	102H42W472KQ3H	UTC4124-41	126449-41	PCI1556-41	1515B472K1
42	SV01AC472MHA	1515CX472MA102	102H42W472MQ3H	UTC4124-42	126449-42	PCI1556-42	1515B472M1
43	SV01AC562KHA	1515CX562KA102	102H42W562KQ3H	UTC4124-43	126449-43	PCI1556-43	1515B562K1
44	SV01AC562MHA	1515CX562MA102	102H42W562MQ3H	UTC4124-44	126449-44	PCI1556-44	1515B562M1
45	SV01AC682KHA	1515CX682KA102	102H42W682KQ3H	UTC4124-45	126449-45	PCI1556-45	1515B682K1
46	SV01AC682MHA	1515CX682MA102	102H42W682MQ3H	UTC4124-46	126449-46	PCI1556-46	1515B682M1
47	SV01AC822KHA	1515CX822KA102	102H42W822KQ3H	UTC4124-47	126449-47	PCI1556-47	1515B822K1
48	SV01AC822MHA	1515CX822MA102	102H42W822MQ3H	UTC4124-48	126449-48	PCI1556-48	1515B822M1

See footnote at end of table.

**DEFENSE ELECTRONICS SUPPLY CENTER
DAYTON, OHIO**

**SIZE
A**

**CODE IDENT NO.
14933**

**DWG NO.
87043**

REV N

**PAGE
8**

1/ DSCC drawing PIN 87043-	Vendor A similar vendor type	Vendor B similar vendor type	Vendor C and J similar vendor type	Vendor D similar vendor type	Vendor E similar vendor type	Vendor F similar vendor type	Vendor similar vendor type
49	SV01AC103KHA	1515CX103KA102	102H42W103KQ3H	UTC4124-49	126449-49	PCI1556-49	1515B103K1
50	SV01AC103MHA	1515CX103MA102	102H42W103MQ3H	UTC4124-50	126449-50	PCI1556-50	1515B103M1
51	SV02AC123KHA	2020CX123KA102	102H46W123KQ3H	UTC4124-51	126449-51	PCI1556-51	2020B123K1
52	SV02AC123MHA	2020CX123MA102	102H46W123MQ3H	UTC4124-52	126449-52	PCI1556-52	2020B123M1
53	SV02AC153KHA	2020CX153KA102	102H46W153KQ3H	UTC4124-53	126449-53	PCI1556-53	2020B153K1
54	SV02AC153MHA	2020CX153MA102	102H46W153MQ3H	UTC4124-54	126449-54	PCI1556-54	2020B153M1
55	SV02AC183KHA	2020CX183KA102	102H46W183KQ3H	UTC4124-55	126449-55	PCI1556-55	2020B183K1
56	SV02AC183MHA	2020CX183MA102	102H46W183MQ3H	UTC4124-56	126449-56	PCI1556-56	2020B183M1
57	SV02AC223KHA	2020CX223KA102	102H46W223KQ3H	UTC4124-57	126449-57	PCI1556-57	2020B223K1
58	SV02AC223MHA	2020CX223MA102	102H46W223MQ3H	UTC4124-58	126449-58	PCI1556-58	2020B223M1
59	SV03AC273KHA	2520CX273KA102	102H47W273KQ3H	UTC4124-59	126449-59	PCI1556-59	2520B273K1
60	SV03AC273MHA	2520CX273MA102	102H47W273MQ3H	UTC4124-60	126449-60	PCI1556-60	2520B273M1
61	SV05AC333KHA	3530CX333KA102	102H51W333KQ3H	UTC4124-61	126449-61	PCI1556-61	3530B333K1
62	SV05AC333MHA	3530CX333MA102	102H51W333MQ3H	UTC4124-62	126449-62	PCI1556-62	3530B333M1
63	SV05AC393KHA	3530CX393KA102	102H51W393KQ3H	UTC4124-63	126449-63	PCI1556-63	3530B393K1
64	SV05AC393MHA	3530CX393MA102	102H51W393MQ3H	UTC4124-64	126449-64	PCI1556-64	3530B393M1
65	SV05AC473KHA	3530CX473KA102	102H51W473KQ3H	UTC4124-65	126449-65	PCI1556-65	3530B473K1
66	SV05AC473MHA	3530CX473MA102	102H51W473MQ3H	UTC4124-66	126449-66	PCI1556-66	3530B473M1
67	SV05AC563KHA	3530CX563KA102	102H51W563KQ3H	UTC4124-67	126449-67	PCI1556-67	3530B563K1
68	SV05AC563MHA	3530CX563MA102	102H51W563MQ3H	UTC4124-68	126449-68	PCI1556-68	3530B563M1
69	SV05AC683KHA	3530CX683KA102	102H51W683KQ3H	UTC4124-69	126449-69	PCI1556-69	3530B683K1
70	SV05AC683MHA	3530CX683MA102	102H51W683MQ3H	UTC4124-70	126449-70	PCI1556-70	3530B683M1
71	SV07AC823KHA	4540CX823KA102	102H62W823KQ3H	UTC4124-71	126449-71	PCI1556-71	4540B823K1
72	SV07AC823MHA	4540CX823MA102	102H62W823MQ3H	UTC4124-72	126449-72	PCI1556-72	4540B823M1
73	SV07AC104KHA	4540CX104KA102	102H62W104KQ3H	UTC4124-73	126449-73	PCI1556-73	4540B104K1
74	SV07AC104MHA	4540CX104MA102	102H62W104MQ3H	UTC4124-74	126449-74	PCI1556-74	4540B104M1
75	SV07AC124KHA	4540CX124KA102	102H62W124KQ3H	UTC4124-75	126449-75	PCI1556-75	4540B124K1
76	SV07AC124MHA	4540CX124MA102	102H62W124MQ3H	UTC4124-76	126449-76	PCI1556-76	4540B124M1
77	SV07AC154KHA	4540CX154KA102	102H62W154KQ3H	UTC4124-77	126449-77	PCI1556-77	4540B154K1
78	SV07AC154MHA	4540CX154MA102	102H62W154MQ3H	UTC4124-78	126449-78	PCI1556-78	4540B154M1
79	SV08AC184KHA	5550CX184KA102	102H66W184KQ3H	UTC4124-79	126449-79	PCI1556-79	5550B184K1
80	SV08AC184MHA	5550CX184MA102	102H66W184MQ3H	UTC4124-80	126449-80	PCI1556-80	5550B184M1
81	SV08AC224KHA	5550CX224KA102	102H66W224KQ3H	UTC4124-81	126449-81	PCI1556-81	5550B224K1
82	SV08AC224MHA	5550CX224MA102	102H66W224MQ3H	UTC4124-82	126449-82	PCI1556-82	5550B224M1
83	SV08AC274KHA	5550CX274KA102	102H66W274KQ3H	UTC4124-83	126449-83	PCI1556-83	5550B274K1
84	SV08AC274MHA	5550CX274MA102	102H66W274MQ3H	UTC4124-84	126449-84	PCI1556-84	5550B274M1
85	SV09AC334KHA	6560CX334KA102	102H70W334KQ3H	UTC4124-85	126449-85	PCI1556-85	6560B334K1
86	SV09AC334MHA	6560CX334MA102	102H70W334MQ3H	UTC4124-86	126449-86	PCI1556-86	6560B334M1
87	SV09AC394KHA	6560CX394KA102	102H70W394KQ3H	UTC4124-87	126449-87	PCI1556-87	6560B394K1
88	SV09AC394MHA	6560CX394MA102	102H70W394MQ3H	UTC4124-88	126449-88	PCI1556-88	6560B394M1
89	SV09AC474KHA	6560CX474KA102	102H70W474KQ3H	UTC4124-89	126449-89	PCI1556-89	6560B474K1
90	SV09AC474MHA	6560CX474MA102	102H70W474MQ3H	UTC4124-90	126449-90	PCI1556-90	6560B474M1

1/ Parts must be purchased to this DSCC PIN to assure that all performance requirements and tests are met.

6.6 Approved sources of supply. Approved sources of supply are listed herein. Additional sources will be added as they become available. For assistance in the use of this drawing, contact DLA Land and Maritime, ATTN: VAT, Post Office Box 3990, Columbus, OH 43218-3990 or e-mailed to capacitorfilter@dla.mil also by telephone (614) 692-4709 or DSN 850-4709.

<u>Vendor</u>	<u>Vendor CAGE</u>	<u>Vendor name and address</u>
A	96095	Olean Advanced Products A Division of AVX Corporation 1695 Seneca Avenue Olean NY 14760-3736
B	63980	Wright Capacitors Incorporated 2610 South Oak Street Santa Ana CA 92707-3720
C	07EN1	Advanced Monolythic Ceramics, Incorporated 3101 Constitution Avenue, Suite 100 Olean NY 14760-1867
D	0YBX7	Union Technology Corporation 718 Monterey Pass Road Monterey Park CA 91754-3607
E	0LR95	Spectrum Control Technology Incorporated 1900 West College Avenue State College, PA 16801
F	60212	Presidio Components Incorporated 7169 Construction Court San Diego CA 92121-2615
G	65238	Novacap 25136 Anza Drive Valencia CA 91355-3415
H	3H3G4	CalRamic Technologies LLC 5462 Louie Lane Reno, NV 89511
J	29454	Johanson Dielectrics, Inc 15191 Bledsoe Avenue Sylmar, CA 91342

DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO	SIZE A	CODE IDENT NO. 14933	DWG NO. 87043
		REV N	PAGE 9