

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	Added suggested sources of supply.	11 May 88	D. Moore
B	Added and deleted suggested sources of supply, modified manufacturer's PINs, modified 3.2.2 and 3.2.6. Editorial changes throughout.	18 Jan 88	D. Moore
C	Changes in accordance with NOR 5910-R012-96	23 May 96	A. Ernst
D	Revised sources of supply, added alternate marking method, made editorial changes, and converted references to MIL-PRF-49467.	5 April 99	J. Crum
E	Moved solderability testing from group A to group B. Updated suggested sources of supply.	10 April 00	Kendall A. Cottongim
F	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
G	Added suggested source of supply. Corrected Johanson Dielectrics PINs and changed CAGE code.	12 September 01	Kendall A. Cottongim
H	Updated name and address of vendor C.	4 November 02	Kendall A. Cottongim
J	Added Johanson Dielectrics as a suggested source of supply.	18 August 2004	Kendall A. Cottongim
K	Added CalRamic Technologies as a suggested source of supply.	19 April 2007	Michael A. Radecki

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

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

Selected item drawing

REV STATUS OF PAGES	REV	K	K	K	K	K	K	K	K	K	K						
	PAGES	1	2	3	4	5	6	7	8	9							

<b>PMIC N/A</b>	<b>PREPARED BY</b> ROBERT E. GRILLOT		<b>DEFENSE ELECTRONIC SUPPLY CENTER</b>  <b>DAYTON, OH 45444-5000</b>														
Original date of drawing  20 February 1987	<b>CHECKED BY</b> EDWARD H. BACK		<b>TITLE</b>  CAPACITORS, CERAMIC, MULTILAYER, HIGH VOLTAGE, X7R, 2,000 V DC														
	<b>APPROVED BY</b> DAVID E. MOORE																
	<b>SIZE</b> A	<b>CODE IDENT. NO.</b> 14933	<b>DWG NO.</b>  <b>87040</b>														
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1. SCOPE

1.1 Scope. This drawing and [MIL-PRF-49467](#) describe the complete 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 <http://assist.daps.dla.mil/quicksearch/> or <http://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. 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.

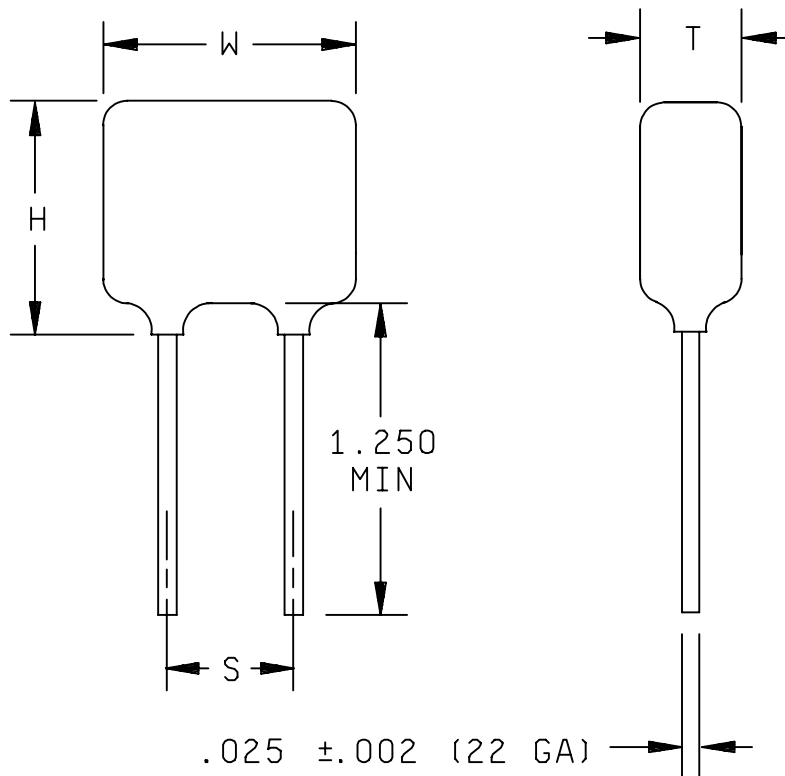
3.1.3 Operating temperature range. The operating temperature range shall be -55°C to +125°C.

3.2 Electrical characteristics.

3.2.1 Rated voltage. The rated voltage shall be 2,000 volts dc.

3.2.2 Dielectric type. X7R.

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Case code	Sizes (max.)			Lead spacing $\pm .030$ (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
H	1.250	.600	.270	1.100
J	1.450	.720	.270	1.300

Inches	mm	Inches	mm
.002	0.05	.470	11.94
.025	0.64	.475	12.07
.030	0.76	.500	12.70
.170	4.32	.570	14.48
.200	5.08	.575	14.61
.220	5.59	.600	15.24
.250	6.35	.670	17.02
.270	6.86	.675	17.15
.275	6.99	.720	18.29
.280	7.11	.770	19.56
.300	7.62	1.100	27.94
.320	8.13	1.250	31.75
.370	9.40	1.300	33.02
.375	9.53	1.450	36.83
.400	10.16		

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.

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- 3.2.3 Temperature coefficient.  $\pm 15$  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°C.
- 3.2.5 Dissipation factor (+25°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°C, 500 V dc: 100,000 megohms or 1,000 megohms microfarad, whichever is less. At +125°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 =  $\pm 10$  percent, M =  $\pm 20$  percent. K tolerance parts may be substituted for M tolerance parts, with procuring 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°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.

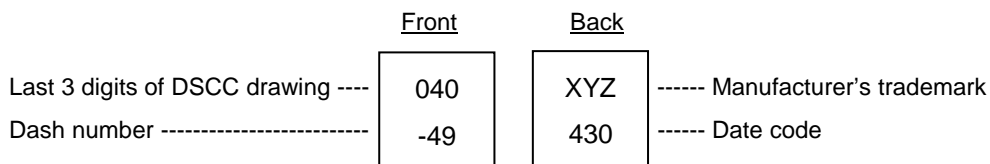


FIGURE 2. Alternate marking method for A, B, and C case codes.

- 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 Certificate of compliance. A certificate of compliance shall be required from manufacturers requesting to be a suggested source of supply.
- 3.15 Workmanship. Capacitors shall be uniform in quality and free from any defects that will affect life, serviceability, or appearance.

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TABLE I. Electrical characteristics

DSCC drawing 87040-	Capacitance	Capacitance tolerance	Case code	DSCC drawing 87040-	Capacitance	Capacitance tolerance	Case code
01	100 pF	K	A	42	4700 pF	M	B
02	100 pF	M	A	43	5600 pF	K	B
03	120 pF	K	A	44	5600 pF	M	B
04	120 pF	M	A	45	6800 pF	K	B
05	150 pF	K	A	46	6800 pF	M	B
06	150 pF	M	A	47	8200 pF	K	C
07	180 pF	K	A	48	8200 pF	M	C
08	180 pF	M	A	49	.01 $\mu$ F	K	C
09	220 pF	K	A	50	.01 $\mu$ F	M	C
10	220 pF	M	A	51	.012 $\mu$ F	K	D
11	270 pF	K	A	52	.012 $\mu$ F	M	D
12	270 pF	M	A	53	.015 $\mu$ F	K	D
13	330 pF	K	A	54	.015 $\mu$ F	M	D
14	330 pF	M	A	55	.018 $\mu$ F	K	D
15	390 pF	K	A	56	.018 $\mu$ F	M	D
16	390 pF	M	A	57	.022 $\mu$ F	K	D
17	470 pF	K	A	58	.022 $\mu$ F	M	D
18	470 pF	M	A	59	.027 $\mu$ F	K	D
19	560 pF	K	A	60	.027 $\mu$ F	M	D
20	560 pF	M	A	61	.033 $\mu$ F	K	E
21	680 pF	K	A	62	.033 $\mu$ F	M	E
22	680 pF	M	A	63	.039 $\mu$ F	K	E
23	820 pF	K	A	64	.039 $\mu$ F	M	E
24	820 pF	M	A	65	.047 $\mu$ F	K	E
25	1000 pF	K	A	66	.047 $\mu$ F	M	E
26	1000 pF	M	A	67	.056 $\mu$ F	K	F
27	1200 pF	K	A	68	.056 $\mu$ F	M	F
28	1200 pF	M	A	69	.068 $\mu$ F	K	F
29	1500 pF	K	A	70	.068 $\mu$ F	M	F
30	1500 pF	M	A	71	.082 $\mu$ F	K	G
31	1800 pF	K	A	72	.082 $\mu$ F	M	G
32	1800 pF	M	A	73	.10 $\mu$ F	K	G
33	2200 pF	K	A	74	.10 $\mu$ F	M	G
34	2200 pF	M	A	75	.12 $\mu$ F	K	H
35	2700 pF	K	A	76	.12 $\mu$ F	M	H
36	2700 pF	M	A	77	.15 $\mu$ F	K	H
37	3300 pF	K	A	78	.15 $\mu$ F	M	H
38	3300 pF	M	A	79	.18 $\mu$ F	K	J
39	3900 pF	K	A	80	.18 $\mu$ F	M	J
40	3900 pF	M	A	81	.22 $\mu$ F	K	J
41	4700 pF	K	B	82	.22 $\mu$ F	M	J

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

6.4 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: Defense Supply Center, Columbus, ATTN: DSCC/VAT, Post Office Box 3990, Columbus, OH 43218-3990 or e-mailed to [capacitorfilter@dscclia.mil](mailto:capacitorfilter@dscclia.mil) also by telephone (614) 692-4709 or DSN 850-4709.

6.5 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 Defense Supply Center, Columbus, ATTN: DSCC-VAT, Post Office Box 3990, Columbus, OH 43218-3990 or e-mailed to [capacitorfilter@dscclia.mil](mailto:capacitorfilter@dscclia.mil) also by telephone (614) 692-4709 or DSN 850-4709.

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<u>1/</u> DSCC drawing PIN 87040-	Vendor A similar vendor type	Vendor B similar vendor type	Vendor C similar vendor type	Vendor D similar vendor type	Vendor E similar vendor type	Vendor F similar vendor type	Vendor G similar vendor type	Vendor H similar vendor type
01	SV01GC101KHA	1515CX101KA202	202H42W101KQ3H	UTC4123-01	129615-01	PCI1557-01	1515N101K202LEXH	20HV01B101KM
02	SV01GC101MHA	1515CX101MA202	202H42W101MQ3H	UTC4123-02	129615-02	PCI1557-02	1515N101M202LEXH	20HV01B101MM
03	SV01GC121KHA	1515CX121KA202	202H42W121KQ3H	UTC4123-03	129615-03	PCI1557-03	1515N121K202LEXH	20HV01B121KM
04	SV01GC121MHA	1515CX121MA202	202H42W121MQ3H	UTC4123-04	129615-04	PCI1557-04	1515N121M202LEXH	20HV01B121MM
05	SV01GC151KHA	1515CX151KA202	202H42W151KQ3H	UTC4123-05	129615-05	PCI1557-05	1515N151K202LEXH	20HV01B151KM
06	SV01GC151MHA	1515CX151MA202	202H42W151MQ3H	UTC4123-06	129615-06	PCI1557-06	1515N151M202LEXH	20HV01B151MM
07	SV01GC181KHA	1515CX181KA202	202H42W181KQ3H	UTC4123-07	129615-07	PCI1557-07	1515N181K202LEXH	20HV01B181KM
08	SV01GC181MHA	1515CX181MA202	202H42W181MQ3H	UTC4123-08	129615-08	PCI1557-08	1515N181M202LEXH	20HV01B181MM
09	SV01GC221KHA	1515CX221KA202	202H42W221KQ3H	UTC4123-09	129615-09	PCI1557-09	1515N221K202LEXH	20HV01B221KM
10	SV01GC221MHA	1515CX221MA202	202H42W221MQ3H	UTC4123-10	129615-10	PCI1557-10	1515N221M202LEXH	20HV01B221MM
11	SV01GC271KHA	1515CX271KA202	202H42W271KQ3H	UTC4123-11	129615-11	PCI1557-11	1515N271K202LEXH	20HV01B271KM
12	SV01GC271MHA	1515CX271MA202	202H42W271MQ3H	UTC4123-12	129615-12	PCI1557-12	1515N271M202LEXH	20HV01B271MM
13	SV01GC331KHA	1515CX331KA202	202H42W331KQ3H	UTC4123-13	129615-13	PCI1557-13	1515N331K202LEXH	20HV01B331KM
14	SV01GC331MHA	1515CX331MA202	202H42W331MQ3H	UTC4123-14	129615-14	PCI1557-14	1515N331M202LEXH	20HV01B331MM
15	SV01GC391KHA	1515CX391KA202	202H42W391KQ3H	UTC4123-15	129615-15	PCI1557-15	1515N391K202LEXH	20HV01B391KM
16	SV01GC391MHA	1515CX391MA202	202H42W391MQ3H	UTC4123-16	129615-16	PCI1557-16	1515N391M202LEXH	20HV01B391MM
17	SV01GC471KHA	1515CX471KA202	202H42W471KQ3H	UTC4123-17	129615-17	PCI1557-17	1515N471K202LEXH	20HV01B471KM
18	SV01GC471MHA	1515CX471MA202	202H42W471MQ3H	UTC4123-18	129615-18	PCI1557-18	1515N471M202LEXH	20HV01B471MM
19	SV01GC561KHA	1515CX561KA202	202H42W561KQ3H	UTC4123-19	129615-19	PCI1557-19	1515N561K202LEXH	20HV01B561KM
20	SV01GC561MHA	1515CX561MA202	202H42W561MQ3H	UTC4123-20	129615-20	PCI1557-20	1515N561M202LEXH	20HV01B561MM
21	SV01GC681KHA	1515CX681KA202	202H42W681KQ3H	UTC4123-21	129615-21	PCI1557-21	1515N681K202LEXH	20HV01B681KM
22	SV01GC681MHA	1515CX681MA202	202H42W681MQ3H	UTC4123-22	129615-22	PCI1557-22	1515N681M202LEXH	20HV01B681MM
23	SV01GC821KHA	1515CX821KA202	202H42W821KQ3H	UTC4123-23	129615-23	PCI1557-23	1515N821K202LEXH	20HV01B821KM
24	SV01GC821MHA	1515CX821MA202	202H42W821MQ3H	UTC4123-24	129615-24	PCI1557-24	1515N821M202LEXH	20HV01B821MM
25	SV01GC102KHA	1515CX102KA202	202H42W102KQ3H	UTC4123-25	129615-25	PCI1557-25	1515B102K202LEXH	20HV01B102KM
26	SV01GC102MHA	1515CX102MA202	202H42W102MQ3H	UTC4123-26	129615-26	PCI1557-26	1515B102M202LEXH	20HV01B102MM
27	SV01GC122KHA	1515CX122KA202	202H42W122KQ3H	UTC4123-27	129615-27	PCI1557-27	1515B122K202LEXH	20HV01B122KM
28	SV01GC122MHA	1515CX122MA202	202H42W122MQ3H	UTC4123-28	129615-28	PCI1557-28	1515B122M202LEXH	20HV01B122MM
29	SV01GC152KHA	1515CX152KA202	202H42W152KQ3H	UTC4123-29	129615-29	PCI1557-29	1515B152K202LEXH	20HV01B152KM
30	SV01GC152MHA	1515CX152MA202	202H42W152MQ3H	UTC4123-30	129615-30	PCI1557-30	1515B152M202LEXH	20HV01B152MM
31	N/A	1515CX182KA202	202H42W182KQ3H	UTC4123-31	129615-31	PCI1557-31	1515B182K202LEXH	20HV01B182KM
32	N/A	1515CX182MA202	202H42W182MQ3H	UTC4123-32	129615-32	PCI1557-32	1515B182M202LEXH	20HV01B182MM
33	N/A	1515CX222KA202	202H42W222KQ3H	UTC4123-33	129615-33	PCI1557-33	1515B222K202LEXH	20HV01B222KM
34	N/A	1515CX222MA202	202H42W222MQ3H	UTC4123-34	129615-34	PCI1557-34	1515B222M202LEXH	20HV01B222MM
35	N/A	1515CX272KA202	202H42W272KQ3H	UTC4123-35	129615-35	PCI1557-35	1515B272K202LEXH	20HV01B272KM
36	N/A	1515CX272MA202	202H42W272MQ3H	UTC4123-36	129615-36	PCI1557-36	1515B272M202LEXH	20HV01B272MM
37	N/A	1515CX332KA202	202H42W332KQ3H	UTC4123-37	129615-37	PCI1557-37	1515B332K202LEXH	20HV01B332KM
38	N/A	1515CX332MA202	202H42W332MQ3H	UTC4123-38	129615-38	PCI1557-38	1515B332M202LEXH	20HV01B332MM
39	N/A	1515CX392KA202	202H42W392KQ3H	UTC4123-39	129615-39	PCI1557-39	1515B392K202LEXH	20HV01B392KM
40	N/A	1515CX392MA202	202H42W392MQ3H	UTC4123-40	129615-40	PCI1557-40	1515B392M202LEXH	20HV01B392MM
41	SV02GC472KHA	2020CX472KA202	202H46W472KQ3H	UTC4123-41	129615-41	PCI1557-41	2020B472K202LEXH	20HV02B472KM
42	SV02GC472MHA	2020CX472MA202	202H46W472MQ3H	UTC4123-42	129615-42	PCI1557-42	2020B472M202LEXH	20HV02B472MM
43	SV02GC562KHA	2020CX562KA202	202H46W562KQ3H	UTC4123-43	129615-43	PCI1557-43	2020B562K202LEXH	20HV02B562KM
44	SV02GC562MHA	2020CX562MA202	202H46W562MQ3H	UTC4123-44	129615-44	PCI1557-44	2020B562M202LEXH	20HV02B562MM
45	N/A	2020CX682KA202	202H46W682KQ3H	UTC4123-45	129615-45	PCI1557-45	2020B682K202LEXH	20HV02B682KM
46	N/A	2020CX682MA202	202H46W682MQ3H	UTC4123-46	129615-46	PCI1557-46	2020B682M202LEXH	20HV02B682MM
47	SV03GC822KHA	2520CX822KA202	202H47W822KQ3H	UTC4123-47	129615-47	PCI1557-47	2520B822K202LEXH	20HV03B822KM
48	SV03GC822MHA	2520CX822MA202	202H47W822MQ3H	UTC4123-48	129615-48	PCI1557-48	2520B822M202LEXH	20HV03B822MM

See footnote at end of table.

<b>DEFENSE ELECTRONICS SUPPLY CENTER</b>		<b>SIZE</b> <b>A</b>	<b>CODE IDENT NO.</b> <b>14933</b>	<b>DWG NO.</b> <b>87040</b>
<b>DAYTON, OHIO</b>				
<b>REV K</b>				
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1/ DSCC drawing PIN 87040-	Vendor A similar vendor type	Vendor B similar vendor type	Vendor C similar vendor type	Vendor D similar vendor type	Vendor E similar vendor type	Vendor F similar vendor type	Vendor G similar vendor type	Vendor H similar vendor type
49	SV03GC103KHA	2520CX103KA202	202H47W103KQ3H	UTC4123-49	129615-49	PCI1557-49	2520B103K202LEXH	20HV03B103KM
50	SV03GC103MHA	2520CX103MA202	202H47W103MQ3H	UTC4123-50	129615-50	PCI1557-50	2520B103M202LEXH	20HV03B103MM
51	SV05GC123KHA	3530CX123KA202	202H51W123KQ3H	UTC4123-51	129615-51	PCI1557-51	3530B123K202LEXH	20HV04B123KM
52	SV05GC123MHA	3530CX123MA202	202H51W123MQ3H	UTC4123-52	129615-52	PCI1557-52	3530B123M202LEXH	20HV04B123MM
53	SV05GC153KHA	3530CX153KA202	202H51W153KQ3H	UTC4123-53	129615-53	PCI1557-53	3530B153K202LEXH	20HV04B153KM
54	SV05GC153MHA	3530CX153MA202	202H51W153MQ3H	UTC4123-54	129615-54	PCI1557-54	3530B153M202LEXH	20HV04B153MM
55	SV05GC183KHA	3530CX183KA202	202H70W183KQ3H	UTC4123-55	129615-55	PCI1557-55	3530B183K202LEXH	20HV04B183KM
56	SV05GC183MHA	3530CX183MA202	202H70W183MQ3H	UTC4123-56	129615-56	PCI1557-56	3530B183M202LEXH	20HV04B183MM
57	SV05GC223KHA	3530CX223KA202	202H51W223KQ3H	UTC4123-57	129615-57	PCI1557-57	3530B223K202LEXH	20HV04B223KM
58	SV05GC223MHA	3530CX223MA202	202H51W223MQ3H	UTC4123-58	129615-58	PCI1557-58	3530B223M202LEXH	20HV04B223MM
59	SV05GC273KHA	3530CX273KA202	202H51W273KQ3H	UTC4123-59	129615-59	PCI1557-59	3530B273K202LEXH	20HV04B273KM
60	SV05GC273MHA	3530CX273MA202	202H51W273MQ3H	UTC4123-60	129615-60	PCI1557-60	3530B273M202LEXH	20HV04B273MM
61	SV07GC333KHA	4540CX333KA202	202H62W333KQ3H	UTC4123-61	129615-61	PCI1557-61	4540B333K202LEXH	20HV05B333KM
62	SV07GC333MHA	4540CX333MA202	202H62W333MQ3H	UTC4123-62	129615-62	PCI1557-62	4540B333M202LEXH	20HV05B333MM
63	SV07GC393KHA	4540CX393KA202	202H62W393KQ3H	UTC4123-63	129615-63	PCI1557-63	4540B393K202LEXH	20HV05B393KM
64	SV07GC393MHA	4540CX393MA202	202H62W393MQ3H	UTC4123-64	129615-64	PCI1557-64	4540B393M202LEXH	20HV05B393MM
65	SV07GC473KHA	4540CX473KA202	202H62W473KQ3H	UTC4123-65	129615-65	PCI1557-65	4540B473K202LEXH	20HV05B473KM
66	SV07GC473MHA	4540CX473MA202	202H62W473MQ3H	UTC4123-66	129615-66	PCI1557-66	4540B473M202LEXH	20HV05B473MM
67	SV08GC563KHA	5550CX563KA202	202H66W563KQ3H	UTC4123-67	129615-67	PCI1557-67	5550B563K202LEXH	20HV06B563KM
68	SV08GC563MHA	5550CX563MA202	202H66W563MQ3H	UTC4123-68	129615-68	PCI1557-68	5550B563M202LEXH	20HV06B563MM
69	SV08GC683KHA	5550CX683KA202	202H66W683KQ3H	UTC4123-69	129615-69	PCI1557-69	5550B683K202LEXH	20HV06B683KM
70	SV08GC683MHA	5550CX683MA202	202H66W683MQ3H	UTC4123-70	129615-70	PCI1557-70	5550B683M202LEXH	20HV06B683MM
71	SV09GC823KHA	6560CX823KA202	202H70W823KQ3H	UTC4123-71	129615-71	PCI1557-71	6560B823K202LEXH	20HV07B823KM
72	SV09GC823MHA	6560CX823MA202	202H70W823MQ3H	UTC4123-72	129615-72	PCI1557-72	6560B823M202LEXH	20HV07B823MM
73	SV09GC104KHA	6560CX104KA202	202H70W104KQ3H	UTC4123-73	129615-73	PCI1557-73	6560B104K202LEXH	20HV07B104KM
74	SV09GC104MHA	6560CX104MA202	202H70W104MQ3H	UTC4123-74	129615-74	PCI1557-74	6560B104M202LEXH	20HV07B104MM
75	SV11GC124KHA	11050CX124KA202	202H99W124KQ3H	UTC4123-75	129615-75	PCI1557-75	11050B124K202LEXH	20HV15B124KM
76	SV11GC124MHA	11050CX124MA202	202H99W124MQ3H	UTC4123-76	129615-76	PCI1557-76	11050B124M202LEXH	20HV15B124MM
77	SV11GC154KHA	11050CX154KA202	202H99W154KQ3H	UTC4123-77	129615-77	PCI1557-77	11050B154K202LEXH	20HV15B154KM
78	SV11GC154MHA	11050CX154MA202	202H99W154MQ3H	UTC4123-78	129615-78	PCI1557-78	11050B154M202LEXH	20HV15B154MM
79	SV12GC184KHA	13060CX184KA202	202H80W184KQ3H	UTC4123-79	129615-79	PCI1557-79	13060B184K202LEXH	20HV16B184KM
80	SV12GC184MHA	13060CX184MA202	202H80W184MQ3H	UTC4123-80	129615-80	PCI1557-80	13060B184M202LEXH	20HV16B184MM
81	SV12GC224KHA	13060CX224KA202	202H80W224KQ3H	UTC4123-81	129615-81	PCI1557-81	13060B224K202LEXH	20HV16B224KM
82	SV12GC224MHA	13060CX224MA202	202H80W224MQ3H	UTC4123-82	129615-82	PCI1557-82	13060B224M202LEXH	20HV16B224MM

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

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

<b>DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO</b>	<b>SIZE A</b>	<b>CODE IDENT NO. 14933</b>	<b>DWG NO. 87040</b>
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