

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
A	Added "J" tolerance ($\pm 5\%$) to all BR and BX capacitors. Added paragraphs 1.3 and 6.4. Revised tables VI, VII, and VIII.	08-04-21	Michael A. Radecki
B	Revised the available voltages in table VII for vendors A and C.	09-01-22	Michael A. Radecki
C	Changed address of vendor D.	10-07-01	Michael A. Radecki
D	Updated tables VII and VIII for vendor D.	10-11-09	Michael A. Radecki
E	Canceled PINs that have duplicates in MIL-PRF-55681. Added K and M tolerance to BP capacitors. Specified the life test sample size. Updated tables VI, VII, and VIII.	11-10-13	Michael A. Radecki
F	Updated tables VII, and VIII for vendor C.	12-03-23	Michael A. Radecki
G	Updated vendor information and updated table III to be consistent with MIL-PRF-55681.	19-07-03	RADECKI.MICHAEL.A.1230152051 Digitally signed by RADECKI.MICHAEL.A.1230152051 Date: 2019.07.03 07:34:24 -04'00'

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](#)

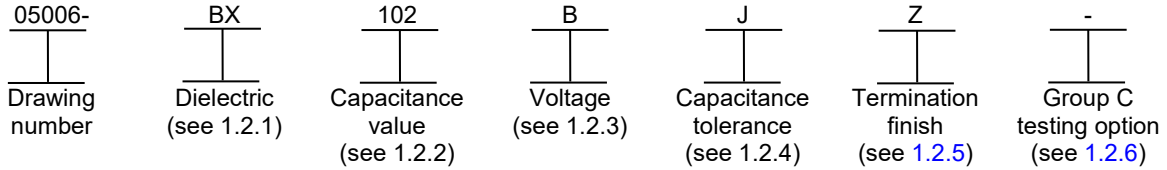
Selected item drawing

REV STATUS OF PAGES	REV	G	G	G	G	G	G	G	G	G	G							
	PAGES	1	2	3	4	5	6	7	8	9	10							
PMIC N/A	PREPARED BY MICHAEL A. RADECKI							DESIGN ACTIVITY DEFENSE SUPPLY CENTER, COLUMBUS COLUMBUS, OH										
Original date of drawing 05-04-11	CHECKED BY MICHAEL A. RADECKI							TITLE CAPACITOR, FIXED, CERAMIC, CHIP, 0805										
	APPROVED BY KENDALL A. COTTONGIM																	
	SIZE A	CAGE CODE 037Z3					DWG NO. 05006											
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1. SCOPE

1.1 Scope. This drawing and [MIL-PRF-55681](#) describe the requirements for ceramic, chip. This drawing offers capacitors with higher capacitance values and lower voltages than those currently offered in [MIL-PRF-55681/1](#) or [MIL-PRF-55681/7](#).

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



1.2.1 Dielectric. The dielectric type is identified by the following 2 letters as defined in 3.3.1: BP, BR, BX.

1.2.2 Capacitance value. The nominal capacitance value, expressed in picofarads (pF) is identified by a three digit number; the first two digits represent significant figures and the last digit specifies the number of zeros to follow. When the nominal value is less than 10 pF, the letter "R" is used to indicate the decimal point and the succeeding digit(s) of the group represent significant figure(s). 1R0 indicates 1.0 pF; R75 indicates .75 pF; and 0R5 indicates 0.5 pF. See tables VI, VII, and VIII for values.

1.2.3 Voltage. The rated voltage for continuous operation at +125°C is identified by a single letter as shown in table I.

TABLE I. Rated voltage.

Symbol	Rated voltage (volts, dc)
X	10
Y	16
Z	25
A	50
B	100
C	200

1.2.4 Capacitance tolerance. The capacitance tolerance is identified by a single letter in accordance with table II.

TABLE II. Capacitance tolerance.

Symbol	Capacitance tolerance (±)	Tolerance applicability
C	.25 pF	BP < 10 pF
D	.50 pF	BP < 10 pF
F	1 percent	BP ≥ 10 pF
G	2 percent	BP ≥ 10 pF
J	5 percent	BP ≥ 10 pF, BR, BX
K	10 percent	BP ≥ 10 pF, BR, BX
M	20 percent	BP ≥ 10 pF, BR, BX

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1.2.5 Termination finish. Termination finish is identified by a single letter as shown in table III.

TABLE III. Termination finish.

Symbol	Termination finish
M	Palladium/silver alloy
U	Base metallization-nickel-solder coated (tin/lead alloy, with a minimum of 3 percent lead). Solder has a melting point of +200°C or less. Solder coat thickness is a minimum of 60 microinches.
Z	Base metallization-nickel-solder plated (tin/lead alloy, with a minimum of 3 percent lead)

1.2.6 Group C testing option. To require [MIL-PRF-55681](#) group C testing, use the appropriate letter from table IV. If group C testing is not desired, leave this location blank. NOTE: Ordering group C options that contain a 2,000 hour life test may extend the processing time by 90 days or more.

TABLE IV. Group C testing option.

Letter	Group C testing option
C	Full group C
L	2,000 hour life test only
M	1,000 hour life test only
H	Low voltage humidity only
N/A	No group C testing.

1.3 [MIL-PRF-55681](#) vs. DSCC Drawing 05006. When available, [MIL-PRF-55681/1](#) and [MIL-PRF-55681/7](#) capacitors are preferred over DSCC Drawing 05006 capacitors. The military specification requires failure rate level verification and provides additional quality assurance provisions that are not required in this drawing. Refer to tables VI and VIII for [MIL-PRF-55681/1](#) and [MIL-PRF-55681/7](#) availability guidance.

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 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 (See 6.2).

DEPARTMENT OF DEFENSE SPECIFICATIONS

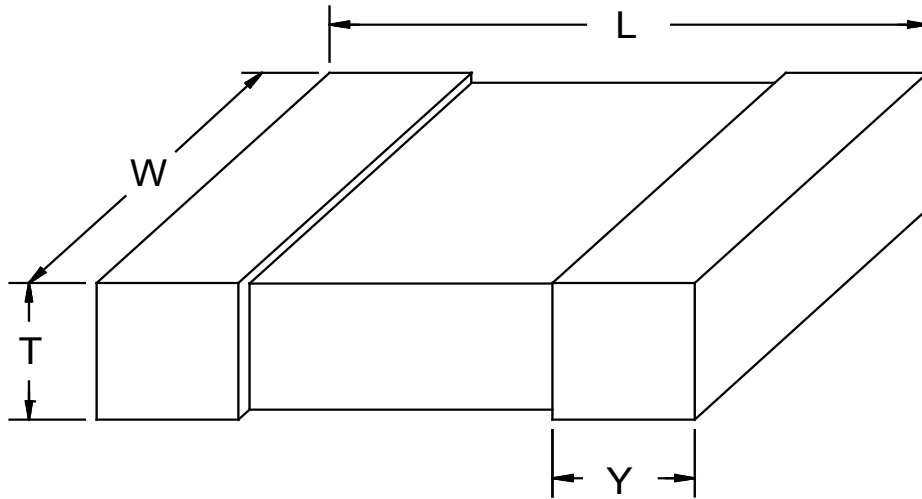
- [MIL-PRF-55681](#) - Capacitor, Chip, Multiple Layer, Fixed, Unencapsulated, Ceramic Dielectric, Established Reliability and Non-Established Reliability, General Specification For
- [MIL-PRF-55681/1](#) - Capacitors, Chip, Multiple Layer, Fixed, Ceramic Dielectric, Established Reliability and Non-Established Reliability, Styles CDR01, CDR02, CDR03, and CDR04
- [MIL-PRF-55681/7](#) - Capacitors, Chip, Multiple Layer, Fixed, Ceramic Dielectric, Established Reliability and Non-Established Reliability, Style CDR31, Metric

DEPARTMENT OF DEFENSE STANDARDS

- [MIL-STD-202-305](#) - Method 305, Capacitance
- [MIL-STD-1285](#) - Marking of Electrical and Electronic Parts

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

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Dimensions			
L	W	T	Y
± .008	± .008	Max	± .008
.080	.050	.055	.020

Inches	mm
.008	0.20
.020	0.51
.050	1.27
.055	1.40
.080	2.03

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Dimensions and tolerances are for bare chips. For solder coated terminations (symbol U), add .020 inch (0.51 mm) to the positive length tolerance and .015 inch (0.38 mm) to the positive width and thickness tolerances.

FIGURE 1. Case dimensions and configuration.

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 Item requirements. The individual item requirements shall be in accordance with [MIL-PRF-55681](#), and as specified herein. Unless otherwise stated, these capacitors shall be capable of meeting all electrical, environmental, and mechanical requirements of [MIL-PRF-55681](#).

3.2 Interface and physical dimensions. The interface and physical dimensions shall be as specified in [MIL-PRF-55681](#) and herein (see [figure 1](#)).

3.2.1 Tin plated finishes. Tin plating is prohibited as a final finish or as an undercoat. Tin-lead (Sn-Pb) finishes are acceptable provided that the minimum lead content is 3 percent (see [6.4](#)).

3.3 Electrical characteristics.

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3.3.1 Dielectric type. The dielectric type shall be BP (± 30 ppm/ $^{\circ}$ C), BR (+15, -40 percent) or BX (+15, -25 percent) ceramic in accordance with [MIL-PRF-55681](#).

TABLE V. Voltage-temperature limits.

Symbol	Capacitance change with reference to +25 $^{\circ}$ C		
	Step A through step D of MIL-PRF-55681 table XIII	Percent rated voltage	Step E through step G of MIL-PRF-55681 table XIII
BP	0 \pm 30 ppm/ $^{\circ}$ C	100	0 \pm 30 ppm/ $^{\circ}$ C
BR	\pm 15 percent	100	+15, -40 percent
BX	\pm 15 percent	100	+15, -25 percent

3.3.2 Capacitance. Capacitance shall be in accordance with tables VI, VII, and VIII when measured in accordance with [MIL-STD-202-305](#). The following conditions shall apply:

- a. Test frequency: 1 MHz \pm 50kHz (for all BP characteristic capacitors \leq 1,000 pF); or 1kHz \pm 50Hz for all other capacitors.
- b. Test voltage: 1.0 volt \pm 0.2 volt rms.

3.3.3 Dissipation factor (+25 $^{\circ}$ C). The dissipation factor shall not exceed 0.15 percent for BP characteristic capacitors, 5.0 percent for 10V BR and BX characteristic capacitors, 3.5 percent for 16V and 25V BR and BX characteristic capacitors, and 2.5 percent for 50V to 200V BR and BX characteristic capacitors.

3.3.4 Insulation resistance. At +25 $^{\circ}$ C: minimum of 100,000 megohms or 1,000 megohm-microfarads, whichever is less.
At +125 $^{\circ}$ C: minimum of 10,000 megohms or 100 megohm-microfarads, whichever is less for BR and BX dielectrics; and minimum of 1,000 megohms or 10 megohm-microfarads, whichever is less for BP dielectric.

3.4 Solderability. In accordance with [MIL-PRF-55681](#), except the sample size shall be 5 pieces with zero defectives permitted.

3.5 Moisture resistance. In accordance with [MIL-PRF-55681](#), with the following exceptions:

- a. Polarizing voltage shall be rated voltage.
- b. Testing may be performed on chips with a larger width and/or length as long as they are cut from the same wafer(s) as those used for production.

3.6 Marking. As a minimum, marking shall be on the package due to the small size of the chips. The package marking shall be in accordance with [MIL-STD-1285](#), except the PIN shall be as specified in paragraph 1.2 with manufacturer's name or CAGE code and date code. The manufacturer may, at their option, mark some information on the chips.

3.7 Manufacturer eligibility. To be eligible for listing as an approved source of supply, a manufacturer shall be listed in the [MIL-PRF-55681 Qualified Products Database](#) for at least one part, or perform the group A and group C inspections specified in [MIL-PRF-55681](#) on a sample of parts agreed upon by the manufacturer and DLA Land and Maritime-VAT.

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

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. In accordance with [MIL-PRF-55681](#).

4. VERIFICATION

4.1 Qualification inspection. Qualification inspection is not required.

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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 of [MIL-PRF-55681](#). ESR testing and PPM testing and calculation are not applicable. When optional group C testing is requested, terminal strength and series resonance are not applicable. In addition, the life test sample shall be 25 with one defective permitted.

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 that 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 OEM 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 notification of change of product to acquiring activity, if applicable.
- d. Requirements for packaging and packing.

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

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 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, by e-mail to capacitorfilter@dla.mil, or by telephone (614) 692-4709 or DSN 850-4709.

6.6 Changes from previous issue. The margins of this specification are marked with vertical lines to indicate where changes from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

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TABLE VI. BP dielectric electrical characteristics.

DSCC Drawing 05006- 1/	Capacitance pF	Available tolerances	AVX Vendor A						KEMET 3/ Vendor B						PRESIDIO Vendor C						VISHAY Vendor D					
			Available voltages						Available voltages						Available voltages						Available voltages					
			X 10	Y 16	Z 25	A 50	B 100	C 200	X 10	Y 16	Z 25	A 50	B 100	C 200	X 10	Y 16	Z 25	A 50	B 100	C 200	X 10	Y 16	Z 25	A 50	B 100	C 200
BP0R5- ---	.5	C, D	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP1R0- ---	1.0	C, D	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP1R2- ---	1.2	C, D	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP1R5- ---	1.5	C, D	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP1R8- ---	1.8	C, D	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP2R2- ---	2.2	C, D	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP2R7- ---	2.7	C, D	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP3R3- ---	3.3	C, D	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP3R9- ---	3.9	C, D	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP4R7- ---	4.7	C, D	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP5R6- ---	5.6	C, D	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP6R8- ---	6.8	C, D	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP8R2- ---	8.2	C, D	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP100- ---	10	F, G, J, K, M	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP120- ---	12	F, G, J, K, M	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP150- ---	15	F, G, J, K, M	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP180- ---	18	F, G, J, K, M	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP220- ---	22	F, G, J, K, M	.	.	.	.	2/	.	.	.	.	2/	.	.	.	.	2/	.	.	.	.	.	.	2/	.	.
BP270- ---	27	F, G, J, K, M	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP330- ---	33	F, G, J, K, M	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP390- ---	39	F, G, J, K, M	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP470- ---	47	F, G, J, K, M	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP560- ---	56	F, G, J, K, M	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP680- ---	68	F, G, J, K, M	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP820- ---	82	F, G, J, K, M	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP101- ---	100	F, G, J, K, M	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP121- ---	120	F, G, J, K, M	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP151- ---	150	F, G, J, K, M	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP181- ---	180	F, G, J, K, M	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP221- ---	220	F, G, J, K, M	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP271- ---	270	F, G, J, K, M	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP331- ---	330	F, G, J, K, M	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP391- ---	390	F, G, J, K, M	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP471- ---	470	F, G, J, K, M	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP561- ---	560	F, G, J, K, M	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP681- ---	680	F, G, J, K, M	.	.	.	2/	.	.	.	.	.	2/	.	.	.	.	2/	.	.	.	.	.	.	2/	.	.
BP821- ---	820	F, G, J, K, M	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP102- ---	1,000	F, G, J, K, M	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP122- ---	1,200	F, G, J, K, M	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP152- ---	1,500	F, G, J, K, M	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP182- ---	1,800	F, G, J, K, M	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP222- ---	2,200	F, G, J, K, M	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP272- ---	2,700	F, G, J, K, M	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP332- ---	3,300	F, G, J, K, M	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP392- ---	3,900	F, G, J, K, M	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP472- ---	4,700	F, G, J, K, M	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP562- ---	5,600	F, G, J, K, M	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP682- ---	6,800	F, G, J, K, M	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BP822- ---	8,200	F, G, J, K, M	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

1/ Complete PIN shall include symbols to indicate voltage, capacitance tolerance, termination finish, and group C testing option (see 1.2).
 2/ Parts are canceled. Use MIL-PRF-55681/1 or MIL-PRF-55681/7 (see 1.3).
 3/ Vendor does not supply termination finish "M".

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TABLE VII. BR dielectric electrical characteristics.

DSCC Drawing 05006- 1/	Capacitance pF	Available tolerances	AVX 2/ Vendor A						KEMET 3/ Vendor B						PRESIDIO Vendor C						VISHAY Vendor D					
			Available voltages						Available voltages						Available voltages						Available voltages					
			X	Y	Z	A	B	C	X	Y	Z	A	B	C	X	Y	Z	A	B	C	X	Y	Z	A	B	C
BR101- ----	100	J, K, M																								
BR121- ----	120	J, K, M																								
BR151- ----	150	J, K, M																								
BR181- ----	180	J, K, M																								
BR221- ----	220	J, K, M																								
BR271- ----	270	J, K, M																								
BR331- ----	330	J, K, M	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
BR391- ----	390	J, K, M																								
BR471- ----	470	J, K, M	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
BR561- ----	560	J, K, M																								
BR681- ----	680	J, K, M	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
BR821- ----	820	J, K, M																								
BR102- ----	1,000	J, K, M	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
BR122- ----	1,200	J, K, M																								
BR152- ----	1,500	J, K, M	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
BR182- ----	1,800	J, K, M																								
BR222- ----	2,200	J, K, M	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
BR272- ----	2,700	J, K, M																								
BR332- ----	3,300	J, K, M	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
BR392- ----	3,900	J, K, M																								
BR472- ----	4,700	J, K, M	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
BR562- ----	5,600	J, K, M																								
BR682- ----	6,800	J, K, M	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
BR822- ----	8,200	J, K, M																								
BR103- ----	10,000	J, K, M	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
BR123- ----	12,000	J, K, M																								
BR153- ----	15,000	J, K, M	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
BR183- ----	18,000	J, K, M																								
BR223- ----	22,000	J, K, M	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
BR273- ----	27,000	J, K, M																								
BR333- ----	33,000	J, K, M	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
BR393- ----	39,000	J, K, M																								
BR473- ----	47,000	J, K, M	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
BR563- ----	56,000	J, K, M																								
BR683- ----	68,000	J, K, M	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
BR823- ----	82,000	J, K, M																								
BR104- ----	100,000	J, K, M	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
BR124- ----	120,000	J, K, M																								
BR154- ----	150,000	J, K, M	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
BR184- ----	180,000	J, K, M																								
BR224- ----	220,000	J, K, M	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
BR334- ----	330,000	J, K, M																								
BR474- ----	470,000	J, K, M																								
BR684- ----	680,000	J, K, M																								
BR105- ----	1,000,000	J, K, M																								

1/ Complete PIN shall include symbols to indicate voltage, capacitance tolerance, termination finish, and group C testing option (see 1.2).

2/ Vendor does not supply tolerance "J" (±5%).

3/ Vendor does not supply termination finish "M".

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TABLE VIII. BX dielectric electrical characteristics.

DSCC Drawing 05006- 1/	Capacitance pF	Available tolerances	AVX 3/ Vendor A						KEMET 4/ Vendor B						PRESIDIO Vendor C						VISHAY Vendor D					
			Available voltages						Available voltages						Available voltages						Available voltages					
			X	Y	Z	A	B	C	X	Y	Z	A	B	C	X	Y	Z	A	B	C	X	Y	Z	A	B	C
10	16	25	50	100	200	10	16	25	50	100	200	10	16	25	50	100	200	10	16	25	50	100	200			
BX101----	100	J, K, M	•	•	•	•	•	•							•	•	•	•	•	•	•	•	•	•		
BX121----	120	J, K, M	•	•	•	•	•	•							•	•	•	•	•	•	•	•	•	•		
BX151----	150	J, K, M	•	•	•	•	•	•							•	•	•	•	•	•	•	•	•	•		
BX181----	180	J, K, M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
BX221----	220	J, K, M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
BX271----	270	J, K, M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
BX331----	330	J, K, M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
BX391----	390	J, K, M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
BX471----	470	J, K, M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
BX561----	560	J, K, M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
BX681----	680	J, K, M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
BX821----	820	J, K, M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
BX102----	1,000	J, K, M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
BX122----	1,200	J, K, M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
BX152----	1,500	J, K, M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
BX182----	1,800	J, K, M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
BX222----	2,200	J, K, M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
BX272----	2,700	J, K, M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
BX332----	3,300	J, K, M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
BX392----	3,900	J, K, M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
BX472----	4,700	J, K, M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
BX562----	5,600	J, K, M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
BX682----	6,800	J, K, M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
BX822----	8,200	J, K, M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
BX103----	10,000	J, K, M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
BX123----	12,000	J, K, M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
BX153----	15,000	J, K, M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
BX183----	18,000	J, K, M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
BX223----	22,000	J, K, M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
BX273----	27,000	J, K, M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
BX333----	33,000	J, K, M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
BX393----	39,000	J, K, M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
BX473----	47,000	J, K, M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
BX563----	56,000	J, K, M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
BX683----	68,000	J, K, M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
BX823----	82,000	J, K, M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
BX104----	100,000	J, K, M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
BX124----	120,000	J, K, M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
BX154----	150,000	J, K, M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
BX184----	180,000	J, K, M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
BX224----	220,000	J, K, M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		

1/ Complete PIN shall include symbols to indicate voltage, capacitance tolerance, termination finish, and group C testing option (see 1.2).
 2/ Parts are canceled. Use MIL-PRF-55681/1 or MIL-PRF-55681/7 (see 1.3).
 3/ Vendor does not supply tolerance "J" ($\pm 5\%$).
 4/ Vendor does not supply termination finish "M".

6.7 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, by e-mail to capacitorfilter@dla.mil, or by telephone (614) 692-4709 or DSN 850-4709.

Vendor	Vendor CAGE	Vendor name and address	Similar designation ^{1/}
A	6KUV2 S9915 04222	AVX Corporation One AVX Blvd. Fountain Inn, SC 29644-9039 Plants: 1. Same address as Manufacturer 2. AVX-Avio Excelente S de RL de CV Av. San Lorenzo No. 651 Area Rivereno C 1. .P., 32310 Cd. Juarez, Chihuahua, Mexico 3. AVX Corporation 2200 AVX Dr. Myrtle Beach, SC 29577	0805*****HT1A
B	31433	Kemet Electronics Corporation 2835 Kemet Way Simpsonville SC 29681-6202 Plant: Avenida Eloy Cavazos 7908 Ote. Col. Rancho Viejo Guadalupe, N.L., CP 61750, Mexico	C0805*****
C	60212	Presidio Components Incorporated 7169 Construction Court San Diego CA 92121-2615	HR0805*****NT93
D	2770A	Vishay Israel - Migdal Ha'emek 2 Ramat Gabriel P.O. Box 852 Migdal HaEmek 000010500 Israel	VJ05006*****A***

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

DEFENSE SUPPLY CENTER, COLUMBUS COLUMBUS, OHIO	SIZE A	CAGE CODE 037Z3	DWG NO. 05006
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