Specification Details: **Date: 4/29/2015**

Specification: MIL-PRF-55681
Title: Capacitor, Chip, Multiple Layer, Fixed, Unencapsulated, Ceramic Dielectric
Federal Supply Class (FSC): 5910
Conventional: No
Specification contains quality assurance program: No
MIL-STD-790 Established Reliability & High Reliability: Yes
MIL-STD-690 Failure Rate Sampling Plans & Procedures: Yes
Weibull Graded: No
Specification contains space level reliability requirements: No
Specification allows test optimization: No

Contact Information:

Office of Primary Involvement: Passive Devices Branch, DLA Land and Maritime - VQP
Primary Qualifying Activity Contact: 614-692-0609, e-mail: vqp.do@dla.mil
Secondary Qualifying Activity Contact: 614-692-0597, e-mail: vqp.jz@dla.mil

Notes:

THE ACTIVITY RESPONSIBLE FOR THIS QPL IS THE U.S. ARMY COMMUNICATIONS-ELECTRONICS COMMAND AND FORT MONMOUTH. The activity designated as agent for all contacts relative to this QPL is DLA Land and Maratime - VQ, Columbus, OH 43218-3990.

Contact the manufacturer or refer to the manufacturers website for a list of Authorized Distributors.

Part Configuration:

CDR01BX100AKZM

Style	Rated Temperature and Voltage Temperature Limits	Capacitance	Rated Voltage	Capacitance Tolerance	Termination Finish	Product Level Designator
CDR01	BX	100	A	K	Z	M

PART LISTINGS

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION OR TYPE NUMBER	TEST OR QUALIFICATION REFERENCE	SPECIFI-CATION SHEET	SUPPLIER'S NAME (ADDRESS ON LAST PAGE)
CDR01				
10 pF thru 4700 pF; tols. J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. M, N, S, U, W, Y, Z; life failure rate M, P, R, S	0805-CDR01	55681-399-79	/1	AVX Ceramics Corp.
10 pF thru 4700 pF; tols. J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. S, U, W, Y, Z; life failure rate M, P, R, S	C0805	55681-1992-07; 55681-887-73	/1	Kemet Electronics Corp.
10 pF thru 4700 pF; tols. J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. M, S, U, W, Z; life failure rate M, P, R, S	HR0805	55681-659-85	/1	Presidio Components, Inc.
10 pF thru 4700 pF; tols. J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. M, U, W, Y, Z; life failure rate M, P, R, S	VJ7501A560	55681-2437-09	/1	Vishay Israel LTD
CDR02				
220 pF thru 22000 pF; tols. J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. M, N, S, U, W, Y, Z; life failure rate M, P, R, S	1805-CDR02	55681-399-79	/1	AVX Ceramics Corp.
220 pF thru 22000 pF; tols. J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. S, U, W, Y, Z; life failure rate M, P, R, S	C1805	123-1922-07; 55681-888-73	/1	Kemet Electronics Corp.
3900 pF thru 22000 pF; tols. K, M; in 50, 100 volts; BX rated temp. and volt. temp. limits; term. M, S, U, W, Z; life failure rate M, P, R, S	HR1805	55681-049-00	/1	Presidio Components, Inc.

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION OR TYPE NUMBER	TEST OR QUALIFICATION REFERENCE	SPECIFI-CATION SHEET	SUPPLIER'S NAME (ADDRESS ON LAST PAGE)
220 pF thru 22000 pF; tols. J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. M, U, W, Y, Z; life failure rate M, P, R, S	VJX505	55681-2437-09	/1	Vishay Israel LTD
CDR03				
330 pF thru 68000 pF; tols. J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. M, N, S, U, W, Y, Z; life failure rate M, P, R, S	1808-CDR03	55681-400-79	/1	AVX Ceramics Corp.
330 pF thru 68000 pF; tols. J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. S, U, W, Y, Z; life failure rate M, P, R, S	C1808	123-1922-07; 55681-889-73	/1	Kemet Electronics Corp.
330 pF thru 68000 pF; tols. J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. M, S, U, W, Z; life failure rate M, P, R, S	HR1808	55681-660-85	/1	Presidio Components, Inc.
330 pF thru 68000 pF; tols. J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. M, U, W, Y, Z; life failure rate M, P, R, S	VJX506	55681-2437-09	/1	Vishay Israel LTD
CDR04				
1200 pF thru 180000 pF; tols. J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. M, N, S, U, W, Y, Z; life failure rate M, P, R, S	1812-CDR04	55681-400-79	/1	AVX Ceramics Corp.
1200 pF thru 180000 pF; tols. J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. S, U, W, Y, Z; life failure rate M, P, R, S	C1812	123-1924-07; 55681-890-73	/1	Kemet Electronics Corp.
1200 pF thru 3300 pF; tols. J, K; in 100 volts; BP rated temp. and volt. temp. limits; term. M, S, U, W, Z; life failure rate M, P, R, S	HR1812	55681-049-00	/1	Presidio Components, Inc.
39000 pF thru 180000 pF; tols. K, M; in 50, 100 volts; BX rated temp. and volt. temp. limits; term. M, S, U, W, Z; life failure rate M, P, R, S	HR1812	55681-049-00	/1	Presidio Components, Inc.
1200 pF thru 180000 pF; tols. J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. M, U, W, Y, Z; life failure rate M, P, R, S	VJX507	55681-2437-09	/1	Vishay Israel LTD
CDR05				
3900 pF thru 330000 pF; tols. J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. M, N, S, U, W, Y, Z; life failure rate M, P, R, S	1825-CDR05	55681-401-79	/2	AVX Ceramics Corp.
3900 pF thru 330000 pF; tols. J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. S, U, W, Y, Z; life failure rate M, P, R, S	C1825	55681-1989-07; 55681-891-73	/2	Kemet Electronics Corp.
3900 pF thru 5600 pF; tols. J, K; in 100 volts; BP rated temp. and volt. temp. limits; term. M, S, U, W, Z; life failure rate M, P, R, S	HR1825	55681-049-00	/2	Presidio Components, Inc.
68000 pF thru 330000 pF; tols. K, M; in 50, 100 volts; BX rated temp. and volt. temp. limits; term. M, S, U, W, Z; life failure rate M, P, R, S	HR1825	55681-049-00	/2	Presidio Components, Inc.
CDR06				
6800 pF thru 470000 pF; tols. J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. M, N, S, U, W, Y, Z; life failure rate M, P, R, S	2225-CDR06	55681-401-79	/3	AVX Ceramics Corp.
6800 pF thru 470000 pF; tols. J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. S, U, W, Y, Z; life failure rate M, P, R, S	C2225	55681-1994-07; 55681-892-73	/3	Kemet Electronics Corp.
6800 pF thru 470000 pF; tols. J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. M, S, U, W, Z; life failure rate M, P, R, S	HR2225	55681-049-00	/3	Presidio Components, Inc.

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION OR TYPE NUMBER	TEST OR QUALIFICATION REFERENCE	SPECIFI-CATION SHEET	SUPPLIER'S NAME (ADDRESS ON LAST PAGE)
6800 pF thru 470000 pF; tols. J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. M, U, W, Y, Z; life failure rate M, P, R, S	VJ2225	55681-2437-09	/3	Vishay Israel LTD
CDR11				
.1 pF thru 1000 pF; tols. B, C, D, F, G, J, K, M; in 50, 100, 150 volts; BG, BP rated temp. and volt. temp. limits; term. N; life failure rate M, P, R, S	100A (0.1-100pF), 700A (110-1000pF), 710A (0.1-100pF)	55681-3872-13; 55681-72-95	/4	American Technical Ceramics
.1 pF thru 1000 pF; tols. B, C, D, F, G, J, K, M; in 50 volts; BG, BP rated temp. and volt. temp. limits; term. M, N; life failure rate M, P, R, S	AQ11	55681-850-85	/4	AVX Ceramics Corp.
.1 pF thru 1000 pF; tols. B, C, D, F, G, J, K, M; in 50, 100, 150 volts; BG, BP rated temp. and volt. temp. limits; term. M, N; life failure rate M, P, R, S	HR0505	55681-709-03	/4	Presidio Components, Inc.
CDR12				
.1 pF thru 1000 pF; tols. B, C, D, F, G, J, K, M; in 50, 100, 150 volts; BG, BP rated temp. and volt. temp. limits; term. S, U, W; life failure rate M, P, R, S	100A (0.1-100pF), 700A (110-1000pF), 710A (0.1-100pF)	55681-3873-13; 55681-3874-13; 55681-3875-13; 55681-72-95	/4	Avio Excelente S. de R.L. de C.V. American Technical Ceramics
.1 pF thru 1000 pF; tols. B, C, D, F, G, J, K, M; in 50 volts; BG, BP rated temp. and volt. temp. limits; term. S, U, W, Y, Z; life failure rate M, P, R, S	AQ12	55681-850-85	/4	AVX Ceramics Corp.
.1 pF thru 1000 pF; tols. B, C, D, F, G, J, K, M; in 50, 100, 150 volts; BG, BP rated temp. and volt. temp. limits; term. M, S, U, W, Z; life failure rate M, P, R, S	HR0505	55681-709-03	/4	Presidio Components, Inc.
CDR13				
.1 pF thru 5100 pF; tols. B, C, D, F, G, J, K, M; in 50, 100, 200, 300, 500 volts; BG, BP rated temp. and volt. temp. limits; term. N; life failure rate M, P, R, S	100B (0.1-1000pF), 700B (220-5100pF), 710B (0.1-200pF)	55681-266-7T	/4	American Technical Ceramics
.1 pF thru 5100 pF; tols. B, C, D, F, G, J, K, M; in 50, 100, 200, 300, 500 volts; BG, BP rated temp. and volt. temp. limits; term. M, N; life failure rate M, P, R, S	AQ13	55681-851-85	/4	AVX Ceramics Corp.
.1 pF thru 100 pF; tols. B, C, D, F, G, J, K, M; in 50, 100, 200, 300, 500 volts; BG, BP rated temp. and volt. temp. limits; term. M; life failure rate M, P, R, S	HR1010	55681-049-00	/4	Presidio Components, Inc.
CDR14				
.1 pF thru 5100 pF; tols. B, C, D, F, G, J, K, M; in 50, 100, 200, 300, 500 volts; BG, BP rated temp. and volt. temp. limits; term. S, U, W; life failure rate M, P, R, S	100B (0.1-1000pF), 700B (220-5100pF), 710B (0.1-200pF)	55681-267-7T	/4	Avio Excelente S. de R.L. de C.V. American Technical Ceramics
.1 pF thru 5100 pF; tols. B, C, D, F, G, J, K, M; in 50, 100, 200, 300, 500 volts; BG, BP rated temp. and volt. temp. limits; term. S, U, W, Y, Z; life failure rate M, P, R, S	AQ14	55681-852-85	/4	AVX Ceramics Corp.
CDR21				
.1 pF thru 5100 pF; tols. B, C, D, F, G, J, K, M; in 50, 100, 200, 300, 500 volts; BG, BP rated temp. and volt. temp. limits; term. T; life failure rate M, P, R	100B (0.1-1000pF), 700B (220-5100pF), 710B (0.1-200pF)	55681-268-7T	/5	American Technical Ceramics
CDR22				
.1 pF thru 5100 pF; tols. B, C, D, F, G, J, K, M; in 50, 100, 200, 300, 500 volts; BG, BP rated temp. and volt. temp. limits; term. T; life failure rate M, P, R	100B (0.1-1000pF), 700B (220-5100pF), 710B (0.1-200pF)	55681-269-7T	/5	American Technical Ceramics

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CDR23				
.1 pF thru 5100 pF; tols. B, C, D, F, G, J, K, M; in 50, 100, 200, 300, 500 volts; BG, BP rated temp. and volt. temp. limits; term. S; life failure rate M, P, R	100B (0.1-1000pF), 700B (220-5100pF), 710B (0.1-200pF)	55681-270-7T	/5	American Technical Ceramics
CDR24				
.1 pF thru 5100 pF; tols. B, C, D, F, G, J, K, M; in 50, 100, 200, 300, 500 volts; BG, BP rated temp. and volt. temp. limits; term. T; life failure rate M, P, R	100B (0.1-1000pF), 700B (220-5100pF), 710B (0.1-200pF)	55681-268-7T	/5	American Technical Ceramics
CDR25				
.1 pF thru 5100 pF; tols. B, C, D, F, G, J, K, M; in 50, 100, 200, 300, 500 volts; BG, BP rated temp. and volt. temp. limits; term. S; life failure rate M, P, R	100B (0.1-1000pF), 700B (220-5100pF), 710B (0.1-200pF)	55681-271-7T	/5	American Technical Ceramics
CDR31				
1 pF thru 18000 pF; tols. B, C, D, F, J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. M, N, S, U, W, Y, Z; life failure rate M, P, R, S	0805	55681-9-90	/7	AVX Ceramics Corp.
1 pF thru 18000 pF; tols. B, C, D, F, J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. S, U, W, Y, Z; life failure rate M, P, R, S	C0805	55681-1992-07; 55681-345-85	/7	Kemet Electronics Corp.
1 pF thru 18000 pF; tols. B, C, D, F, G, J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. M, S, U, W, Z; life failure rate M, P, R, S	HR0805	55681-049-00	/7	Presidio Components, Inc.
1 pF thru 18000 pF; tols. B, C, J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. M, U, W, Y, Z; life failure rate M, P, R, S	VJ805A5	55681-2437-09	/7	Vishay Israel LTD
CDR32				
1 pF thru 39000 pF; tols. B, C, D, F, J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. M, N, S, U, W, Y, Z; life failure rate M, P, R, S	1206	55681-10-90	/8	AVX Ceramics Corp.
1 pF thru 39000 pF; tols. B, C, D, F, J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. S, U, W, Y, Z; life failure rate M, P, R, S	C1206	55681-1991-07; 55681-346-85	/8	Kemet Electronics Corp.
1 pF thru 39000 pF; tols. F, J, K; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. M, S, U, W, Z; life failure rate M, P, R, S	HR1206	55681-049-00	/8	Presidio Components, Inc.
1 pF thru 39000 pF; tols. B, C, D, F, G, J, K, M; in 100 volts; BP, BX rated temp. and volt. temp. limits; term. M, S, U, W, Z; life failure rate M, P, R, S	HR1206	55681-049-00	/8	Presidio Components, Inc.
1 pF thru 39000 pF; tols. B, C, D, F, J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. M, U, W, Y, Z; life failure rate M, P, R, S	VJX503	55681-2437-09	/8	Vishay Israel LTD
CDR33				
1000 pF thru 100000 pF; tols. F, J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. M, N, S, U, W, Y, Z; life failure rate M, P, R, S	1210	55681-11-90	/9	AVX Ceramics Corp.
1000 pF thru 100000 pF; tols. F, J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. S, U, W, Y, Z; life failure rate M, P, R, S	C1210	55681-1990-07; 55681-347-85	/9	Kemet Electronics Corp.
1000 pF thru 100000 pF; tols. F, J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. M, S, U, W, Z; life failure rate M, P, R, S	HR1209	55681-049-00	/9	Presidio Components, Inc.

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1000 pF thru 100000 pF; tols. F, J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. M, U, W, Y, Z; life failure rate M, P, R, S	VJX504	55681-2437-09	/9	Vishay Israel LTD
CDR34				
5100 pF thru 10000 pF			/	
2200 pF thru 180000 pF; tols. F, J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. M, N, S, U, W, Y, Z; life failure rate M, P, R, S	1812	55681-12-90	/10	AVX Ceramics Corp.
2200 pF thru 180000 pF; tols. F, J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. S, U, W, Y, Z; life failure rate M, P, R, S	C1812	123-1924-07; 55681-348-85	/10	Kemet Electronics Corp.
5100 pF thru 10000 pF; tols. F, J, K; in 50 volts; BP rated temp. and volt. temp. limits; life failure rate M, P, R, S	HR1712	55681-049-00	/10	Presidio Components, Inc.
27000 pF thru 180000 pF; tols. K, M; in 50, 100 volts; BX rated temp. and volt. temp. limits; term. M, S, U, W, Z; life failure rate M, P, R, S	HR1712	55681-049-00	/10	Presidio Components, Inc.
2200 pF thru 4700 pF; tols. F, J, K; in 100 volts; BP rated temp. and volt. temp. limits; term. M, S, U, W, Z; life failure rate M, P, R, S	HR1712	55681-049-00	/10	Presidio Components, Inc.
2200 pF thru 180000 pF; tols. F, J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. M, U, W, Y, Z; life failure rate M, P, R, S	VJX508	55681-2437-09	/10	Vishay Israel LTD
CDR35				
4700 pF thru 470000 pF; tols. F, J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. M, N, S, U, W, Y, Z; life failure rate M, P, R, S	1825	55681-13-90	/11	AVX Ceramics Corp.
4700 pF thru 470000 pF; tols. F, J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. S, U, W, Y, Z; life failure rate M, P, R, S	C1825	55681-349-85	/11	Kemet Electronics Corp.
180000 pF thru 470000 pF; tols. K, M, ; in 50 volts; BX rated temp. and volt. temp. limits; term. M, S, U, W, Z; life failure rate M, P, R, S,	HR1725	55681-049-00	/11	Presidio Components, Inc.
4700 pF thru 22000 pF; tols. F, J, K; in 50, 100 volts; BP rated temp. and volt. temp. limits; term. M, S, U, W, Z; life failure rate M, P, R, S,	HR1725	55681-049-00	/11	Presidio Components, Inc.
4700 pF thru 470000 pF; tols. F, J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. M, U, W, Y, Z; life failure rate M, P, R, S	VJ805A5	55681-2437-09	/11	Vishay Israel LTD

Manufacturer and Supplier Location Information

Manufacturer: American Technical Ceramics (CAGE Code: 29990)
Location: One Norden Lane, Huntington Station, NY 11746-2142, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: AVX Corporation (CAGE Code: 04222)
Location: Ceramics Division, P.O. Box 867, 801 17th Avenue South, Myrtle Beach, SC 29577-0867, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Kemet Electronics Corporation (CAGE Code: 31433)
Location: 2835 Kemet Way, Simpsonville, SC 29681-2457, US

Plants:
1. Kemet de Mexico, S.A. de C.V., Avenida Eloy Cavazos 7908 Ote., Col. Rancho Viejo, Guadalupe, N.L., MX

Manufacturer: Presidio Components, Inc. (CAGE Code: 60212)
Location: P.O. Box 81576, 7169 Construction Court, San Diego, CA 92138-1576, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Vishay Israel, Ltd. (CAGE Code: SHV71)
Location: 4 Nahal Tzvi Street, Migdal Ha'Emek, Israel

Plants:
1. Plant: Same Address as Manufacturer