Specification Details: **Date: 10/6/2025**

Specification: MIL-PRF-123
Title: Capacitor, Fixed, Ceramic Dielectric, (Temperature Stable and General Purpose)
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: No
Weibull Graded: No
Specification contains space level reliability requirements: Yes
Specification allows test optimization: No

Contact Information:

Office of Primary Involvement: Electronic Devices Branch, DLA Land and Maritime - VQE
Primary Qualifying Activity Contact: 614-692-1339, e-mail: vqp.bj@dla.mil
Secondary Qualifying Activity Contact: 614-692-2009, e-mail: vqp.ch@dla.mil

Notes:

N/A

Part Configuration:

M123A01BXB103KC

Performance Specification Number	Product Level	Slash Sheet Number	Characteristic	Voltage	Capacitance Value	Capacitance Tolerance	Termination
M123	A	01	BX	B	103	K	C

PART LISTINGS

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION OR TYPE NUMBER	TEST OR QUALIFICATION REFERENCE	SPECIFI-CATION SHEET	SUPPLIER'S NAME (ADDRESS ON LAST PAGE)
CKS05				
4.7 pF thru 10000 pF; tols. C, D, F, J, K; in 50, 100, 200 volts; BP, BX rated temp. and volt. temp. limits; term. C; Product levels A	C052Z	123-178-85; 20-1102-73; 20-389-88	/1	Kemet Electronics Corp
4.7 pF thru 10000 pF; tols. C, D, F, J, K; in 50, 100, 200 volts; BP, BX rated temp. and volt. temp. limits; term. C; Product levels A	CKS05	123-197-02; 123-392-89; 20-395-88; 39014-28-96	/1	KYOCERA AVX Components Corporation
CKS06				
270 pF thru 1000000 pF; tols. F, J, K; in 50, 100, 200 volts; BP, BX rated temp. and volt. temp. limits; term. C; Product levels A	C062Z	123-078-99; 123-179-85; 20-1102-73; 20-390-88	/2	Kemet Electronics Corp
270 pF thru 1000000 pF; tols. F, J, K; in 50, 100, 200 volts; BP, BX rated temp. and volt. temp. limits; term. C; Product levels A	CKS06	123-197-02; 123-3306-11; 123-393-89; 20-395-88; 39014-28-96	/2	KYOCERA AVX Components Corporation
CKS07				
2200 pF thru 1000000 pF; tols. F, J, K; in 50, 100, 200 volts; BP, BX rated temp. and volt. temp. limits; term. C; Product levels A	C512Z	123-838-93; 123-996-87; 20-1103-73	/3	Kemet Electronics Corp
CKS11				
1 pF thru 4700 pF; tols. B, C, D, F, J, K; in 50, 100, 200 volts; BP, BX rated temp. and volt. temp. limits; term. W; Product levels A	CKS11	123-395-89; 20-143-74	/4	KYOCERA AVX Components Corporation
CKS12				
82 pF thru 10000 pF; tols. F, J, K; in 50, 100, 200 volts; BP, BX rated temp. and volt. temp. limits; term. W; Product levels A	CKS12	123-396-89; 20-143-74	/5	KYOCERA AVX Components Corporation

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION OR TYPE NUMBER	TEST OR QUALIFICATION REFERENCE	SPECIFI-CATION SHEET	SUPPLIER'S NAME (ADDRESS ON LAST PAGE)
CKS14				
150 pF thru 47000 pF; tols. F, J, K; in 50, 100, 200 volts; BP, BX rated temp. and volt. temp. limits; term. W; Product levels A	CKS14	123-397-89; 20-143-74	/6	KYOCERA AVX Components Corporation
CKS15				
820 pF thru 180000 pF; tols. F, J, K; in 50, 100, 200 volts; BP, BX rated temp. and volt. temp. limits; term. W; Product levels A	CKS15	123-398-89; 20-143-74	/7	KYOCERA AVX Components Corporation
CKS16				
2400 pF thru 1000000 pF; tols. F, J, K; in 50, 100, 200 volts; BP, BX rated temp. and volt. temp. limits; term. W; Product levels A	CKS16	123-399-89; 20-143-74	/8	KYOCERA AVX Components Corporation
CKS22				
1 pF thru 100000 pF; tols. D, F, J, K, M; in 50, 100, 200 volts; BP, BX rated temp. and volt. temp. limits; term. C; Product levels A	CKS22	123-418-90	/16	KYOCERA AVX Components Corporation
CKS23				
560 pF thru 220000 pF; tols. F, J, K, M; in 50, 100, 200 volts; BP, BX rated temp. and volt. temp. limits; term. C; Product levels A	CKS23	123-419-90	/17	KYOCERA AVX Components Corporation
CKS24				
120000 pF thru 1000000 pF; tols. K, M; in 50, 100 volts; BR, BX rated temp. and volt. temp. limits; term. C; Product levels A	CKS24	123-3367-11; 123-420-90	/18	KYOCERA AVX Components Corporation
CKS51				
1 pF thru 18000 pF; tols. C, D, F, J, K; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. S, Z; Product levels A, T	C0805Z	123-1002-87; 123-1920-07; 55681-345-85	/10	Kemet Electronics Corp
330 pF thru 18000 pF; tols. K; in 50 volts; BX rated temp. and volt. temp. limits; term. G, M, Z; Product levels A, T	CKS51	123-7099-25	/10	Knowles Precision Devices
10 pF thru 470 pF; tols. K; in 100 volts; BP rated temp. and volt. temp. limits; term. G, M, Z; Product levels A, T	CKS51	123-7099-25	/10	Knowles Precision Devices
330 pF thru 4700 pF; tols. K; in 50, 100 volts; BX rated temp. and volt. temp. limits; term. G, M, Z; Product levels A, T	CKS51	123-7099-25	/10	Knowles Precision Devices
1 pF thru 18000 pF; tols. C, D, F, J, K; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. G, M, S, Z; Product levels A, T	CKS51	123-2720-10; 123-4744-16	/10	KYOCERA AVX Components Corporation
1 pF thru 18000 pF; tols. C, D, F, J, K; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. M, S, Z; Product levels A, T	CKS51	123-020-99; 55681-049-00	/10	Presidio Components, Inc.
1 pF thru 18000 pF; tols. C, D, F, J, K; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. M, S, Z; Product levels A	VJ0805	123-3972-13	/10	Vishay Israel - Migdal Ha'Emek
CKS52				
300 pF thru 100000 pF; tols. F, J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. S, Z; Product levels A, T	C1210Z	123-1003-87; 123-1921-07; 55681-347-85	/11	Kemet Electronics Corp
300 pF thru 3300 pF; tols. K; in 50, 100 volts; BP rated temp. and volt. temp. limits; term. G, Z; Product levels A, T	CKS52	123-7099-25	/11	Knowles Precision Devices

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION OR TYPE NUMBER	TEST OR QUALIFICATION REFERENCE	SPECIFI-CATION SHEET	SUPPLIER'S NAME (ADDRESS ON LAST PAGE)
5600 pF thru 100000 pF; tols. M; in 50, 100 volts; BX rated temp. and volt. temp. limits; term. G, Z; Product levels A, T	CKS52	123-7099-25	/11	Knowles Precision Devices
300 pF thru 100000 pF; tols. F, J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. G, M, S, Z; Product levels A, T	CKS52	123-2720-10; 123-4744-16	/11	KYOCERA AVX Components Corporation
300 pF thru 100000 pF; tols. F, J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. M, S, Z; Product levels A, T	CKS52	55681-049-00	/11	Presidio Components, Inc.
300 pF thru 100000 pF; tols. F, J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. M, S, Z; Product levels A	VJ1210	123-3972-13	/11	Vishay Israel - Migdal Ha'Emek
CKS53				
300 pF thru 100000 pF; tols. F, J, K; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. S, Z; Product levels A, T	C1808Z	123-1004-87; 123-1922-07; 55681-889-73	/12	Kemet Electronics Corp
300 pF thru 1000 pF; tols. K; in 50 volts; BP rated temp. and volt. temp. limits; term. Z; Product levels A, T	CKS53	123-7099-25	/12	Knowles Precision Devices
5600 pF thru 100000 pF; tols. K; in 50, 100 volts; BX rated temp. and volt. temp. limits; term. Z; Product levels A, T	CKS53	123-7099-25	/12	Knowles Precision Devices
300 pF thru 100000 pF; tols. F, J, K; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. G, M, S, Z; Product levels A, T	CKS53	123-2720-10; 123-4744-16	/12	KYOCERA AVX Components Corporation
300 pF thru 100000 pF; tols. F, J, K; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. M, S, Z; Product levels A, T	CKS53	123-3314-11; 55681-660-85	/12	Presidio Components, Inc.
300 pF thru 18000 pF; tols. F, J, K; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. M, S, Z; Product levels A	VJ1808	123-3972-13	/12	Vishay Israel - Migdal Ha'Emek
CKS54				
1100 pF thru 1000000 pF; tols. F, J, K; in 50 volts; BP, BX rated temp. and volt. temp. limits; term. S, Z; Product levels A, T	C2225Z	123-1005-87; 55681-1994-07	/13	Kemet Electronics Corp
1100 pF thru 470000 pF; tols. K; in 50 volts; BP, BX rated temp. and volt. temp. limits; term. Z; Product levels A, T	CKS54	123-7099-25	/13	Knowles Precision Devices
1100 pF thru 1000000 pF; tols. F, J, K; in 50 volts; BP, BX rated temp. and volt. temp. limits; term. G, M, S, Z; Product levels A, T	CKS54	123-2723-10; 123-4744-16	/13	KYOCERA AVX Components Corporation
1100 pF thru 1000000 pF; tols. F, J, K; in 50 volts; BP, BX rated temp. and volt. temp. limits; term. M, S, Z; Product levels A, T	CKS54	123-3313-11; 681-049-00	/13	Presidio Components, Inc.
1100 pF thru 470000 pF; tols. F, J, K; in 50 volts; BP, BX rated temp. and volt. temp. limits; term. G, M, S, Z; Product levels A	2225	123-4493-15	/13	Vishay Israel - Migdal Ha'Emek
CKS55				
1 pF thru 39000 pF; tols. B, C, D, F, J, K; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. S, Z; Product levels A, T	C1206Z	123-1923-07; 55681-346-85	/21	Kemet Electronics Corp
13 pF thru 1000 pF; tols. K; in 100 volts; BP rated temp. and volt. temp. limits; term. G, Z; Product levels A, T	CKS55	123-7099-25	/21	Knowles Precision Devices
4700 pF thru 39000 pF; tols. M; in 50, 100 volts; BX rated temp. and volt. temp. limits; term. G, Z; Product levels A, T	CKS55	123-7099-25	/21	Knowles Precision Devices

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION OR TYPE NUMBER	TEST OR QUALIFICATION REFERENCE	SPECIFI-CATION SHEET	SUPPLIER'S NAME (ADDRESS ON LAST PAGE)
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. G, M, S, Z; Product levels A, T	CKS55	123-2724-10; 123-4744-16	/21	KYOCERA AVX Components Corporation
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, S, Z; Product levels A, T	CKS55	55681-049-00	/21	Presidio Components, Inc.
1 pF thru 39000 pF; tols. D, F, J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. M, S, Z; Product levels A	VJ1206	123-3972-13	/21	Vishay Israel - Migdal Ha'Emek
CKS56				
1200 pF thru 180000 pF; tols. F, J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. S, Z; Product levels A, T	C1812Z	123-1924-07; 55681-348-85	/22	Kemet Electronics Corp
1200 pF thru 4700 pF; tols. K; in 100 volts; BP rated temp. and volt. temp. limits; term. Z; Product levels A, T	CKS56	123-7099-25	/22	Knowles Precision Devices
27000 pF thru 180000 pF; tols. M; in 50, 100 volts; BX rated temp. and volt. temp. limits; term. Z; Product levels A, T	CKS56	123-7099-25	/22	Knowles Precision Devices
1200 pF thru 180000 pF; tols. F, J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. G, M, S, Z; Product levels A, T	CKS56	123-2725-10; 123-4744-16	/22	KYOCERA AVX Components Corporation
1200 pF thru 4700 pF; tols. F, J, K; in 100 volts; BP rated temp. and volt. temp. limits; term. M, S, Z; Product levels A, T	CKS56	55681-049-00	/22	Presidio Components, Inc.
27 pF thru 180000 pF; tols. K, M; in 50, 100 volts; BX rated temp. and volt. temp. limits; term. M, S, Z; Product levels A, T	CKS56	55681-049-00	/22	Presidio Components, Inc.
5100 pF thru 10000 pF; tols. F, J, K; in 50 volts; BP rated temp. and volt. temp. limits; term. M, S, Z; Product levels A, T	CKS56	55681-049-00	/22	Presidio Components, Inc.
1200 pF thru 180000 pF; tols. F, J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. G, M, S, Z; Product levels A	VJ1812	123-4493-15	/22	Vishay Israel - Migdal Ha'Emek
CKS57				
3900 pF thru 470000 pF; tols. F, J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. S, Z; Product levels A, T	C1825Z	55681-1989-07; 55681-349-85	/23	Kemet Electronics Corp
3900 pF thru 22000 pF; tols. K; in 50, 100 volts; BP rated temp. and volt. temp. limits; term. Z; Product levels A, T	CKS57	123-7099-25	/23	Knowles Precision Devices
56000 pF thru 470000 pF; tols. M; in 50, 100 volts; BX rated temp. and volt. temp. limits; term. Z; Product levels A, T	CKS57	123-7099-25	/23	Knowles Precision Devices
3900 pF thru 470000 pF; tols. F, J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. G, M, S, Z; Product levels A, T	CKS57	123-2726-10; 123-4744-16	/23	KYOCERA AVX Components Corporation
3900 pF thru 470000 pF; tols. F, J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. M, S, Z; Product levels A, T	CKS57	55681-049-00	/23	Presidio Components, Inc.
3900 pF thru 470000 pF; tols. F, J, K, M; in 50, 100 volts; BP, BX rated temp. and volt. temp. limits; term. M, S, Z; Product levels A	VJ1825	123-3972-13	/23	Vishay Israel - Migdal Ha'Emek

Manufacturer and Supplier Location Information

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., C.P. 61750, MX

Manufacturer: Knowles Precision Devices (CAGE Code: 65238)
Location: 25111 Anza Drive, Santa Clarita, CA 91355, USA

Plants:

1. Plant: Same Address as Manufacturer

Manufacturer: KYOCERA AVX Components Corporation (CAGE Code: 6KUV2)
Location: One AVX Blvd, Fountain Inn, SC 29644-9039, US

Plants:

1. Plant: Same Address as Manufacturer
2. KYOCERA AVX Components Corporation (Myrtle Beach, SC), CAGE: 04222, 2200 AVX Dr., Myrtle Beach, SC 29577,
3. KYOCERA AVX Components Juarez S. de R.L. de C.V., CAGE: S9915, Avenida San Lorenzo 651, Parque Industrial Omega CP, 32410, Cd. Juarez, Chihuahua, Mexico

Manufacturer: Presidio Components, Inc. (CAGE Code: 60212)
Location: 7169 Construction Court, San Diego, CA 92121, US

Plants:

1. Plant: Same Address as Manufacturer
2. Presidio Components Inc. (Test Lab), 500 East 60th Street N., Sioux Falls, SD 57104,

Manufacturer: Vishay Israel - Migdal Ha'Emek (CAGE Code: 2770A)
Location: 4 Nahal Tzvi St, Migdal Ha'Emek, 2304905, Israel

Plants:

1. Plant: Same Address as Manufacturer