

## ***Military/Military Equivalent Products***



**KEMET Federal Source Code: 31433**

This document lists KEMET U.S. Government qualification approvals effective per the listed QPL dates along with other "military equivalent" products. The government approvals verify KEMET ability to manufacture capacitors certified to the appropriate Military Specification. The following Tables show KEMET current approval status for U.S. government military (DSCC) specification components.

**Qualification Status Code:**

- A. All capacitance values, tolerances, voltages.
- B. All capacitance values, tolerances, voltages & dielectrics: "S", "U", "W", "Z", "Y", "U", "X", "N" terminations.
- C. All capacitance values, tolerances, voltages: military A-case size.
- D. All capacitance values, 1pF and above; all tolerances, all voltages.
- E. All capacitance values, tolerances, voltages in military D, E, F, and G case sizes (KEMET C, D, E & F).
- F. All capacitance values, tolerances, 4 volts through 35 volts per QPL.
- G. All capacitance values, tolerances, 4 volts through 50 volts per QPL.

Military Qualification Approvals				
Military Spec./Style	Military Spec./ Sheet	KEMET Style	QPL Approved Failure Levels	
<b>Solid Tantalum Capacitors</b>				
<b>MIL-PRF-39003 QPL Dated %\$# #/%</b>			<b>Failure Level</b>	<b>Military Dash Number</b>
CSR13	M39003/01	T212	M,P,R,S (See QPL) Weibull B, C, D	B - 6001-6401 C - 7001-7388 D - 8001-8303
CSR09	M39003/02	T222*	M,P,R,S (See QPL) Weibull B, C, D	B - 2001-2094 C - 3001-3094 D - 4001-4094
CSR23	M39003/03	T242	M,P,R,S (See QPL) Weibull B, C, D	B - 2001-2087 C - 3001-3087 D - 4001-4087
CSR91	M39003/04	T213*	M,P,R,S (See QPL) Weibull B, C, D	B - 3001-3218 C - 4001-4218 D - 5001-5167
CSR33	M39003/06	T252*	M,P,R,S (See QPL) Weibull B, C, D	B - 2001-2087 C - 3001-3084 D - 4001-4084
CSR21	M39003/09	T262	M,P,R,S (See QPL) Weibull B, C, D	B - 2001-2085 C - 3001-3085 D - 4001-4085
CSS13	M39003/10	T216*	Weibull B, C (See QPL)	B - 2001-2121 C - 3001-3121
CSS33	M39003/10	T256*	Weibull B, C (See QPL)	B - 2500-2557 C - 3500-3557
<b>MIL-PRF-49137 QPL Dated 0, #, #/%</b>			<b>Qualif. Status Code</b>	
CX01	M49137/01	T323	Non-ER	C
CX02	M49137/02	T363*	Non-ER	A
CX12	M49137/02	T369*	Non-ER	A
CX05	M49137/05	T323*	Non-ER	A
CX06	M49137/06	T378	Non-ER	E
<b>Surface Mount Tantalum Capacitors</b>				<b>Qualif. Status Code</b>
<b>MIL-PRF-55365 ED@Dated ) #, #/%</b>		<b>Product Level</b>		
CWR09	M55365/04	T409	A,B,C,D,M,P,R,S,T	G
CWR19	M55365/11	T419	A,B,C,D,M,P,R,S,T	F
CWR29	M55365/11	T429	A,B,C,D,M,P,R,S,T	G
CWR11	M55365/08	T492	A,B,C,D,M,P,R,S,T	G

\*Sole Source

## Military Qualification Approvals

Military Spec./Style	Military Spec./ Sheet	KEMET Style	QPL Approved Failure Levels	Qualification Status
<b>Multilayer Ceramic Capacitors</b>				
<b>MIL-PRF-123 QPL Dated \$- #/ #/ %</b>				
CKS05	M123/01	C052Z	N/A	A
CKS06	M123/02	C062Z	N/A	A
CKS07	M123/03	C512Z*	N/A	A
CKS51	M123/10	C0805Z	N/A	A
CKS52	M123/11	C1210Z	N/A	A
CKS53	M123/12	C1808Z	N/A	A
CKS54	M123/13	C2225Z	N/A	A
CKS55	M123/21	C1206Z	N/A	A
CKS56	M123/22	C1812Z	N/A	A
CKS57	M123/23	C1825Z	N/A	A
<b>MIL-PRF-39014 QPL Dated %\$#%#/\$</b>				
CKR05	M39014/01	C052T/56T	M, P, R, S	A
CKR06	M39014/02	C062T/66T	M, P, R, S	A
CKR11	M39014/05	C114T	M, P, R, S	A
CKR12	M39014/05	C124T	M, P, R, S	A
CKR14	M39014/05	C192T	M, P, R, S	A
CKR15	M39014/05	C202T	M, P, R, S	A
CKR16	M39014/05	C222T	M, P, R, S	A
<b>MIL-PRF-20 QPL Dated 1%\$ #/\$</b>				
CC05	MIL-PRF-20/35	C052/56G	N/A	A
CCR05			M, P, R, S	A
CC06	MIL-PRF-20/36	C062/66G	N/A	A
CCR06			M, P, R, S	A
CC07	MIL-PRF-20/37	C512G	N/A	A
CCR07			M, P, R, S	A
CC08	MIL-PRF-20/38	C522G	N/A	A
CCR08			M, P, R, S	A
CC75	MIL-PRF-20/27	C114G	N/A	D
CCR75			M, P, R, S	D
CC76	MIL-PRF-20/28	C124G	N/A	A
CCR76			M, P, R, S	A
CC77	MIL-PRF-20/29	C192G	N/A	A
CCR77			M, P, R, S	A
CC78	MIL-PRF-20/30	C202G	N/A	A
CCR78			M, P, R, S	A
CC79	MIL-PRF-20/31	C222G	N/A	A
CCR79			M, P, R, S	A
<b>MIL-C-11015 QPL Dated %\$#%#/\$</b>				
CK05	M11015/18	C052K	Non-ER	A
CK06	M11015/19	C062K	Non-ER	A
CK12	M11015/20	C114K	Non-ER	A
CK13	M11015/20	C124K	Non-ER	A
CK14	M11015/20	C192K	Non-ER	A
CK15	M11015/20	C202K	Non-ER	A
CK16	M11015/20	C222K	Non-ER	A
<b>Military Spec./Style    Military Spec./Sheet    KEMET Style    QPL Product Levels    Qualification Status</b>				
<b>MIL-PRF-49470 QPL Dated \$, #&amp;- #/ %</b>				
PS01	M49470/1#	L1	B,T	A
PS02	M49470/2#	L2	B	A
<b>Ceramic Stacks</b>				
N/A	DSCC 87106**	L1	N/A	A

\* Sole Source

\*\* Case Codes 3,4,5; All Voltages; All Capacitance Values; MIL-PRF-49470 supercedes DSCC Drawing 87106.

# Standard Profile; Case Codes 3,4,5; Dielectric Types BQ, BR, BX; All Voltages, All Capacitance Values, N,J,L Lead Styles

<b>Military Qualification Approvals cont.</b>				
<b>Military Spec./Style</b>	<b>Military Spec./Sheet</b>	<b>KEMET Style</b>	<b>QPL Approved Failure Levels</b>	<b>Qualification Status</b>
<b>Multilayer Ceramic Capacitors</b>				
<b>MIL-PRF-55681 QPL Dated 10/18/11</b>				
CDR01	M55681/01	C0805	M, P, R, S	B
CDR02	M55681/01	C1805	M, P, R, S	B
CDR03	M55681/01	C1808	M, P, R, S	B
CDR04	M55681/01	C1812	M, P, R, S	B
CDR05	M55681/02	C1825	M, P, R, S	B
CDR06	M55681/03	C2225	M, P, R, S	B
CDR31	M55681/07	C0805	M, P, R, S	B
CDR32	M55681/08	C1206	M, P, R, S	B
CDR33	M55681/09	C1210	M, P, R, S	B
CDR34	M55681/10	C1812	M, P, R, S	B
CDR35	M55681/11	C1825	M, P, R, S	B

### **KEMET Military Equivalents – Tantalum**

<b>Tantalum Surface Mount - C.O.T.S./Military Equivalent</b>				
<b>Military Spec./Style</b>	<b>Military Spec./Sheet</b>	<b>KEMET Style</b>	<b>Available Failure Rates</b>	<b>Qualification Status</b>
N/A	C.O.T.S.	T493	B, C	Available Now
N/A	DSCC 95158	T495	N/A	Available Now
N/A	DSCC 04053	T496	N/A	Available Now
N/A	C.O.T.S.	T497	B, C	Available Now
N/A	DSCC 04051	T525	N/A	Available Now
N/A	DSCC 04052	T530	N/A	Available Now

**KEMET Electronics Corporation**  
**World Sales Headquarters**  
**P. O. Box 5928 • Greenville, SC 29606 • [www.kemet.com](http://www.kemet.com)**  
**Phone: (864) 963-6300 • Fax: (864) 963-6521**

Note: KEMET reserves the right to modify minor details of internal and external construction at any time in the interest of product improvement. KEMET does not assume any responsibility for infringement that might result from the use of KEMET Capacitors in potential circuit designs.  
 © "KEMET" is a registered trademark of KEMET Electronics Corporation. © KEMET Electronics Corporation