

INCH-POUND

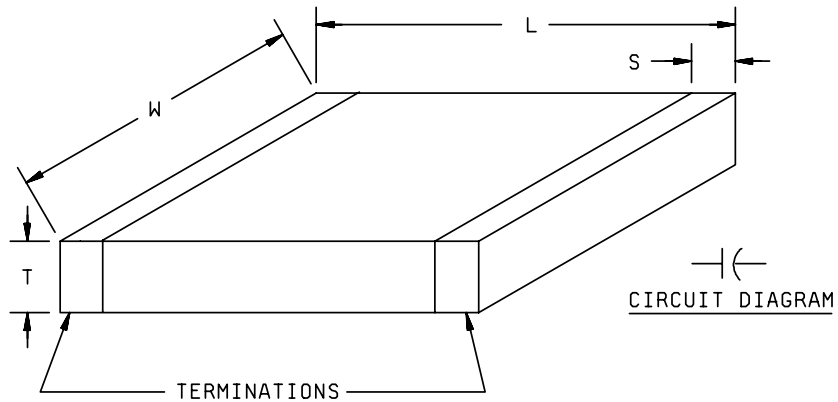
MIL-PRF-123/10D
3 March 2006
SUPERSEDING
MIL-PRF-123/10C
1 September 2005

PERFORMANCE SPECIFICATION SHEET

CAPACITORS, FIXED, CERAMIC DIELECTRIC,
(TEMPERATURE STABLE AND GENERAL PURPOSE),
HIGH RELIABILITY, NONLEADED, STYLE CKS51

This specification is approved for use by all Departments
and Agencies of the Department of Defense.

The requirements for acquiring the product described herein
shall consist of this specification sheet and [MIL-PRF-123](#).



Dimensions				
L ± .015	W ± .015	T		S ± .010
		Min	Max	
.080	.050	.020	.055	.020

Inches	mm
.010	0.25
.015	0.38
.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, add .020 inch to the positive length tolerance and .015 inch to the positive width and thickness tolerances.

FIGURE 1. Style CKS51 capacitors.

MIL-PRF-123/10D

REQUIREMENTS:

Dimensions and configuration: See figure 1.

Case type: Multi-layer, unencapsulated, monolithic ceramic.

* Termination: M, G, S, or Z in accordance with MIL-PRF-123.

Capacitance value: See table I.

* Capacitance tolerance: See table I. (C = ± 0.25 pF; D = ± 0.5 pF; F = ± 1 percent; J = ± 5 percent; K = ± 10 percent.)

Operating temperature: -55°C to +125°C.

* Rated voltage: See table I. 50 Vdc (voltage code B) and 100 Vdc (voltage code C).

Marking: In accordance with MIL-PRF-123.

* TABLE I. Style CKS51 characteristics.

Part or Identifying Number (PIN) <u>1/</u>	Capacitance (pF)	Capacitance tolerance	Voltage-temperature limits	Rated voltage (volts, dc)
M123A10BP-1R0--	1.0	C, D	BP	50, 100
M123A10BP-1R1--	1.1	C, D	BP	50, 100
M123A10BP-1R2--	1.2	C, D	BP	50, 100
M123A10BP-1R3--	1.3	C, D	BP	50, 100
M123A10BP-1R5--	1.5	C, D	BP	50, 100
M123A10BP-1R6--	1.6	C, D	BP	50, 100
M123A10BP-1R8--	1.8	C, D	BP	50, 100
M123A10BP-2R0--	2.0	C, D	BP	50, 100
M123A10BP-2R2--	2.2	C, D	BP	50, 100
M123A10BP-2R4--	2.4	C, D	BP	50, 100
M123A10BP-2R7--	2.7	C, D	BP	50, 100
M123A10BP-3R0--	3.0	C, D	BP	50, 100
M123A10BP-3R3--	3.3	C, D	BP	50, 100
M123A10BP-3R6--	3.6	C, D	BP	50, 100
M123A10BP-3R9--	3.9	C, D	BP	50, 100
M123A10BP-4R3--	4.3	C, D	BP	50, 100
M123A10BP-4R7--	4.7	C, D	BP	50, 100
M123A10BP-5R1--	5.1	C, D	BP	50, 100
M123A10BP-5R6--	5.6	C, D	BP	50, 100
M123A10BP-6R2--	6.2	C, D	BP	50, 100
M123A10BP-6R8--	6.8	C, D	BP	50, 100
M123A10BP-7R5--	7.5	C, D	BP	50, 100
M123A10BP-8R2--	8.2	C, D	BP	50, 100
M123A10BP-9R1--	9.1	C, D	BP	50, 100
M123A10BP-100--	10	C, J, K	BP	50, 100
M123A10BP-110--	11	C, J, K	BP	50, 100
M123A10BP-120--	12	C, J, K	BP	50, 100
M123A10BP-130--	13	C, J, K	BP	50, 100
M123A10BP-150--	15	C, J, K	BP	50, 100
M123A10BP-160--	16	C, J, K	BP	50, 100
M123A10BP-180--	18	C, J, K	BP	50, 100
M123A10BP-200--	20	C, J, K	BP	50, 100

See footnote at end of table.

MIL-PRF-123/10D

TABLE I. Style CKS51 characteristics - Continued.

PIN 1/	Capacitance (pF)	Capacitance tolerance	Voltage-temperature limits	Rated voltage (volts)
M123A10BP-220--	22	C, J, K	BP	50, 100
M123A10BP-240--	24	C, J, K	BP	50, 100
M123A10BP-270--	27	F, J, K	BP	50, 100
M123A10BP-300--	30	F, J, K	BP	50, 100
M123A10BP-330--	33	F, J, K	BP	50, 100
M123A10BP-360--	36	F, J, K	BP	50, 100
M123A10BP-390--	39	F, J, K	BP	50, 100
M123A10BP-430--	43	F, J, K	BP	50, 100
M123A10BP-470--	47	F, J, K	BP	50, 100
M123A10BP-510--	51	F, J, K	BP	50, 100
M123A10BP-560--	56	F, J, K	BP	50, 100
M123A10BP-620--	62	F, J, K	BP	50, 100
M123A10BP-680--	68	F, J, K	BP	50, 100
M123A10BP-750--	75	F, J, K	BP	50, 100
M123A10BP-820--	82	F, J, K	BP	50, 100
M123A10BP-910--	91	F, J, K	BP	50, 100
M123A10BP-101--	100	F, J, K	BP	50, 100
M123A10BP-111--	110	F, J, K	BP	50, 100
M123A10BP-121--	120	F, J, K	BP	50, 100
M123A10BP-131--	130	F, J, K	BP	50, 100
M123A10BP-151--	150	F, J, K	BP	50, 100
M123A10BP-161--	160	F, J, K	BP	50, 100
M123A10BP-181--	180	F, J, K	BP	50, 100
M123A10BP-201--	200	F, J, K	BP	50, 100
M123A10BP-221--	220	F, J, K	BP	50, 100
M123A10BP-241--	240	F, J, K	BP	50, 100
M123A10BP-271--	270	F, J, K	BP	50, 100
M123A10BP-301--	300	F, J, K	BP	50, 100
M123A10BP-331--	330	F, J, K	BP	50, 100
M123A10BP-361--	360	F, J, K	BP	50, 100
M123A10BP-391--	390	F, J, K	BP	50, 100
M123A10BP-431--	430	F, J, K	BP	50, 100
M123A10BP-471--	470	F, J, K	BP	50, 100
M123A10BPB511--	510	F, J, K	BP	50
M123A10BPB561--	560	F, J, K	BP	50
M123A10BPB621--	620	F, J, K	BP	50
M123A10BPB681--	680	F, J, K	BP	50
M123A10BX-331K-	330	K	BX	50, 100
M123A10BX-391K-	390	K	BX	50, 100
M123A10BX-471K-	470	K	BX	50, 100
M123A10BX-561K-	560	K	BX	50, 100
M123A10BX-681K-	680	K	BX	50, 100
M123A10BX-821K-	820	K	BX	50, 100
M123A10BX-102K-	1,000	K	BX	50, 100
M123A10BX-122K-	1,200	K	BX	50, 100
M123A10BX-152K-	1,500	K	BX	50, 100
M123A10BX-182K-	1,800	K	BX	50, 100
M123A10BX-222K-	2,200	K	BX	50, 100
M123A10BX-272K-	2,700	K	BX	50, 100
M123A10BX-332K-	3,300	K	BX	50, 100
M123A10BX-392K-	3,900	K	BX	50, 100

See footnote at end of table.

*

TABLE I. Style CKS51 characteristics - Continued.

PIN <u>1</u> /	Capacitance (pF)	Capacitance tolerance	Voltage-temperature limits	Rated voltage (volts)
M123A10BX-472K-	4,700	K	BX	50, 100
M123A10BxB562K-	5,600	K	BX	50
M123A10BxB682K-	6,800	K	BX	50
M123A10BxB822K-	8,200	K	BX	50
M123A10BxB103K-	10,000	K	BX	50
M123A10BxB123K-	12,000	K	BX	50
M123A10BxB153K-	15,000	K	BX	50
M123A10BxB183K-	18,000	K	BX	50

*

1/ Complete PIN shall include additional letter(s) to indicate voltage, capacitance tolerance, and termination, if applicable.

Changes from previous issue: The margins of this specification are marked with asterisks 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.

Custodians:
 Navy - EC
 Air Force - 19
 DLA - CC
 NASA - NA

Preparing activity:
 DLA - CC
 (Project 5910-2006-020)

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using ASSIST Online database at <http://assist.daps.dla.mil>.