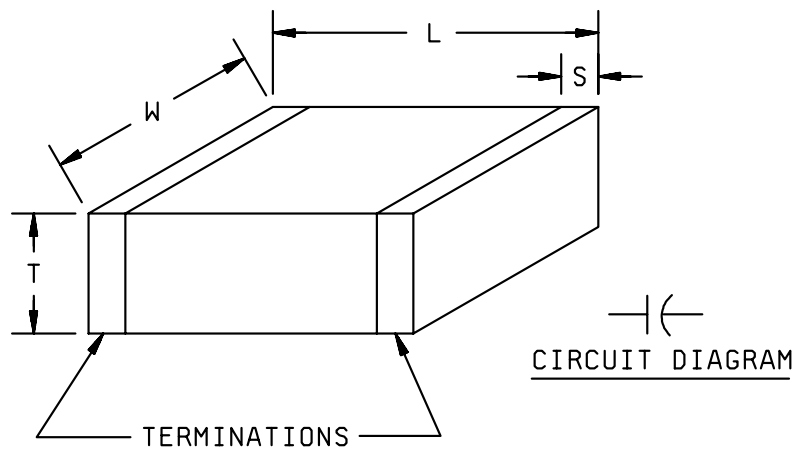


PERFORMANCE SPECIFICATION SHEET

CAPACITORS, FIXED, CERAMIC DIELECTRIC,
 (TEMPERATURE STABLE AND GENERAL PURPOSE),
 HIGH RELIABILITY, NONLEADED, STYLE CKS55

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](#).



L ±.015	W ±.015	T		S ±.010
		Min	Max	
.120	.060	.020	.065	.020

Inches	mm
.008	0.20
.010	0.25
.020	0.51
.059	1.50
.063	1.60
.126	3.20

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 .025 inch (0.64 mm) to the positive length tolerance and .015 inch (0.38 mm) to the positive width and thickness tolerances.

FIGURE 1. Style CKS55 capacitors.

MIL-PRF-123/21C

REQUIREMENTS:

Dimensions and configuration: See figure 1.

Case type: Multilayer, 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. (B = ±0.1 pF; C = ±0.25 pF; D = ±0.5 pF; F = ±1 percent; J = ±5 percent; K = ±10 percent; M = ±20 percent.)

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

Rated voltage: See table I.

Marking: In accordance with MIL-PRF-123.

* TABLE I. Style CKS55 characteristics.

Part or Identifying Number (PIN) ^{1/}	Capacitance pF	Capacitance tolerance	Rated temperature and voltage-temperature limits	Rated voltage V dc
M123A21BPC1R0 --	1.0	B, C	BP	100
M123A21BPC1R1 --	1.1	B, C	BP	100
M123A21BPC1R2 --	1.2	B, C	BP	100
M123A21BPC1R3 --	1.3	B, C	BP	100
M123A21BPC1R5 --	1.5	B, C	BP	100
M123A21BPC1R6 --	1.6	B, C	BP	100
M123A21BPC1R8 --	1.8	B, C	BP	100
M123A21BPC2R0 --	2.0	B, C	BP	100
M123A21BPC2R2 --	2.2	B, C	BP	100
M123A21BPC2R4 --	2.4	B, C	BP	100
M123A21BPC2R7 --	2.7	B, C, D	BP	100
M123A21BPC3R0 --	3.0	B, C, D	BP	100
M123A21BPC3R3 --	3.3	B, C, D	BP	100
M123A21BPC3R6 --	3.6	B, C, D	BP	100
M123A21BPC3R9 --	3.9	B, C, D	BP	100
M123A21BPC4R3 --	4.3	B, C, D	BP	100
M123A21BPC4R7 --	4.7	B, C, D	BP	100
M123A21BPC5R1 --	5.1	B, C, D	BP	100
M123A21BPC5R6 --	5.6	B, C, D	BP	100
M123A21BPC6R2 --	6.2	B, C, D	BP	100
M123A21BPC6R8 --	6.8	B, C, D	BP	100
M123A21BPC7R5 --	7.5	B, C, D	BP	100
M123A21BPC8R2 --	8.2	B, C, D	BP	100
M123A21BPC9R1 --	9.1	B, C, D	BP	100
M123A21BPC100 --	10	F, J, K	BP	100
M123A21BPC110 --	11	F, J, K	BP	100
M123A21BPC120 --	12	F, J, K	BP	100
M123A21BPC130 --	13	F, J, K	BP	100
M123A21BPC150 --	15	F, J, K	BP	100
M123A21BPC160 --	16	F, J, K	BP	100
M123A21BPC180 --	18	F, J, K	BP	100
M123A21BPC200 --	20	F, J, K	BP	100

^{1/} See footnote at end of table.

MIL-PRF-123/21C

TABLE I. Style CKS55 characteristics - Continued.

PIN <u>1</u> /	Capacitance pF	Capacitance tolerance	Rated temperature and voltage-temperature limits	Rated voltage V dc
M123A21BPC240 --	24	F, J, K	BP	100
M123A21BPC270 --	27	F, J, K	BP	100
M123A21BPC330 --	33	F, J, K	BP	100
M123A21BPC360 --	36	F, J, K	BP	100
M123A21BPC390 --	39	F, J, K	BP	100
M123A21BPC430 --	43	F, J, K	BP	100
M123A21BPC470 --	47	F, J, K	BP	100
M123A21BPC510 --	51	F, J, K	BP	100
M123A21BPC560 --	56	F, J, K	BP	100
M123A21BPC620 --	62	F, J, K	BP	100
M123A21BPC680 --	68	F, J, K	BP	100
M123A21BPC750 --	75	F, J, K	BP	100
M123A21BPC820 --	82	F, J, K	BP	100
M123A21BPC910 --	91	F, J, K	BP	100
M123A21BPC101 --	100	F, J, K	BP	100
M123A21BPC111 --	110	F, J, K	BP	100
M123A21BPC121 --	120	F, J, K	BP	100
M123A21BPC131 --	130	F, J, K	BP	100
M123A21BPC151 --	150	F, J, K	BP	100
M123A21BPC161 --	160	F, J, K	BP	100
M123A21BPC181 --	180	F, J, K	BP	100
M123A21BPC201 --	200	F, J, K	BP	100
M123A21BPC221 --	220	F, J, K	BP	100
M123A21BPC241 --	240	F, J, K	BP	100
M123A21BPC271 --	270	F, J, K	BP	100
M123A21BPC301 --	300	F, J, K	BP	100
M123A21BPC331 --	330	F, J, K	BP	100
M123A21BPC361 --	360	F, J, K	BP	100
M123A21BPC391 --	390	F, J, K	BP	100
M123A21BPC431 --	430	F, J, K	BP	100
M123A21BPC471 --	470	F, J, K	BP	100
M123A21BPC511 --	510	F, J, K	BP	100
M123A21BPC561 --	560	F, J, K	BP	100
M123A21BPC621 --	620	F, J, K	BP	100
M123A21BPC681 --	680	F, J, K	BP	100
M123A21BPC751 --	750	F, J, K	BP	100
M123A21BPC821 --	820	F, J, K	BP	100
M123A21BPC911 --	910	F, J, K	BP	100
M123A21BPC102 --	1,000	F, J, K	BP	100
M123A21BPB112 --	1,100	F, J, K	BP	50
M123A21BPB122 --	1,200	F, J, K	BP	50
M123A21BPB132 --	1,300	F, J, K	BP	50
M123A21BPB152 --	1,500	F, J, K	BP	50
M123A21BPB162 --	1,600	F, J, K	BP	50
M123A21BPB182 --	1,800	F, J, K	BP	50
M123A21BPB202 --	2,000	F, J, K	BP	50
M123A21BPB222 --	2,200	F, J, K	BP	50
M123A21BXC472 --	4,700	K, M	BX	100
M123A21BXC562 --	5,600	K, M	BX	100
M123A21BXC682 --	6,800	K, M	BX	100

1/ See footnote at end of table.

* TABLE I. Style CKS55 characteristics - Continued.

PIN <u>1/</u>	Capacitance pF	Capacitance tolerance	Rated temperature and voltage-temperature limits	Rated voltage V dc
M123A21BXC822 - -	8,200	K, M	BX	100
M123A21BXC103 - -	10,000	K, M	BX	100
M123A21BXC123 - -	12,000	K, M	BX	100
M123A21BXC153 - -	15,000	K, M	BX	100
M123A21BXB183 - -	18,000	K, M	BX	50
M123A21BXB223 - -	22,000	K, M	BX	50
M123A21BXB273 - -	27,000	K, M	BX	50
M123A21BXB333 - -	33,000	K, M	BX	50
M123A21BXB393 - -	39,000	K, M	BX	50

1/ The complete PIN will include additional letter(s) to indicate capacitance tolerance and termination.

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 5910-2006-023)

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>.