

PERFORMANCE SPECIFICATION SHEET

CAPACITOR, FIXED, CERAMIC DIELECTRIC
(TEMPERATURE STABLE AND GENERAL PURPOSE),
HIGH RELIABILITY, LEADED,
STYLE CKS23

This specification sheet 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](#).

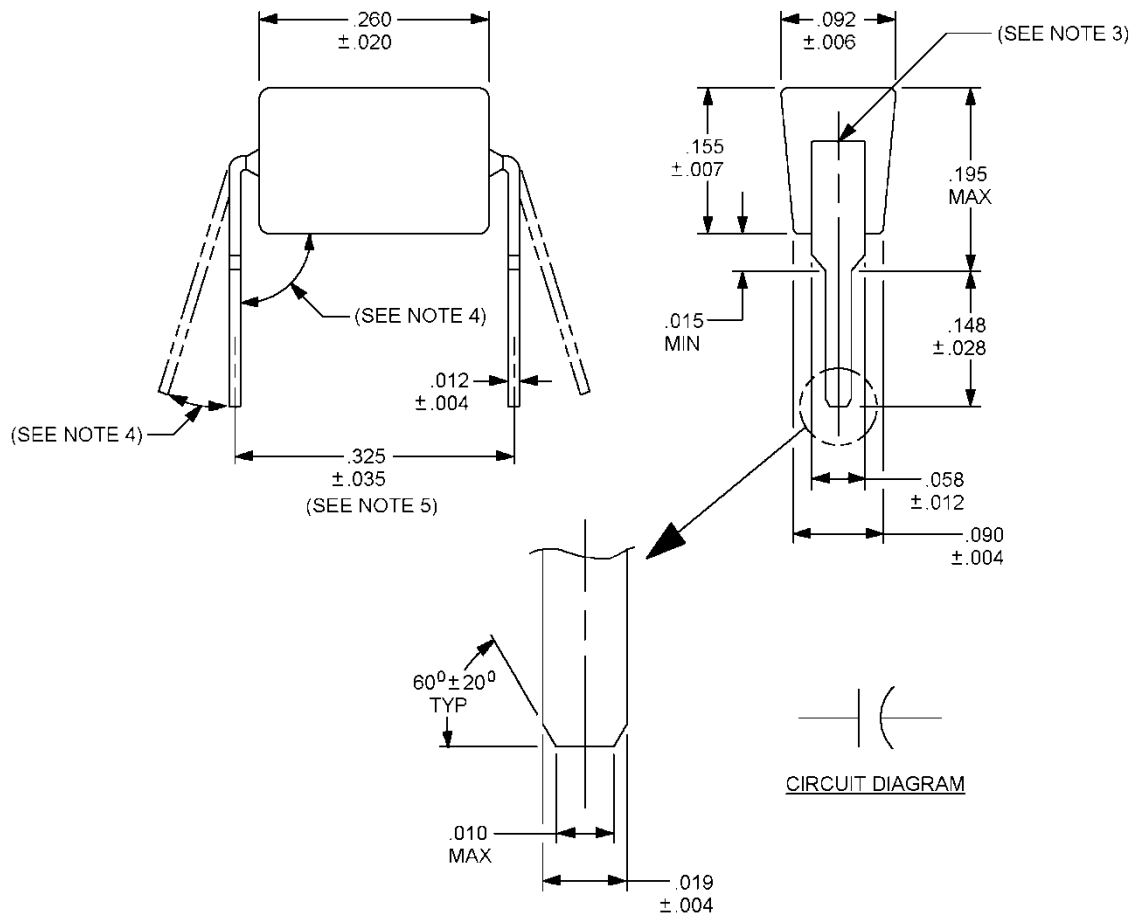


FIGURE 1. Style CKS23 capacitors.



MIL-PRF-123/17E

Inches	mm	Inches	mm
.004	0.10	.035	0.89
.006	0.15	.058	1.47
.007	0.18	.090	2.29
.010	0.25	.092	2.34
.012	0.30	.148	3.76
.015	0.38	.155	3.94
.019	0.48	.195	4.95
.020	0.51	.260	6.60
.028	0.71	.325	8.26

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are in millimeters and are given for general information.
3. Leads shall be centered within $\pm .005$ inch (0.13 mm).
4. The angle shall be $95^\circ +10^\circ, -5^\circ$.
5. The distance between the centers of the mounting holes will be $.300$ inch $\pm .010$ inch (7.62 mm ± 0.25 mm).
6. Nonconductive material shall not extend beyond $.030$ inch (0.76 mm) from the edge of the capacitor body.

FIGURE 1. Style CKS23 capacitors - Continued.

REQUIREMENTS:

Dimensions and configuration: See [figure 1](#).

Case type: Molded plastic, encapsulated.

Lead wire: Type C of [MIL-PRF-123](#).

Capacitance value: See [table I](#).

Capacitance tolerance: See [table I](#) (F = ± 1 percent; J = ± 5 percent; K = ± 10 percent; M = ± 20 percent).

Voltage-temperature limit: BP and BX in accordance with [MIL-PRF-123](#).

Operating temperature: -55°C to $+125^\circ\text{C}$.

Voltage rating: See [table I](#) (B = 50 Vdc; C = 100 Vdc; D = 200 Vdc).

Pre-encapsulation terminal strength: In accordance with [MIL-PRF-123](#).

Marking: In accordance with [MIL-PRF-123](#), example 6.

MIL-PRF-123/17E

TABLE I. Style CKS23 characteristics.

Part or Identifying Number (PIN) ^{1/}	Capacitance (pF)	Capacitance tolerance	Voltage-temperature limits	Rated voltage (V dc)
M123A17BPD561-C	560	F, J, K	BP	200
M123A17BPD681-C	680	F, J, K	BP	200
M123A17BPD821-C	820	F, J, K	BP	200
M123A17BPD102-C	1,000	F, J, K	BP	200
M123A17BPD122-C	1,200	F, J, K	BP	200
M123A17BPC272-C	2,700	F, J, K	BP	100
M123A17BPC332-C	3,300	F, J, K	BP	100
M123A17BPB472-C	4,700	F, J, K	BP	50
M123A17BPB562-C	5,600	F, J, K	BP	50
M123A17BPB682-C	6,800	F, J, K	BP	50
M123A17BPB822-C	8,200	F, J, K	BP	50
M123A17BPB103-C	10,000	F, J, K	BP	50
M123A17BXD102-C	1,000	K, M	BX	200
M123A17BXD122KC	1,200	K	BX	200
M123A17BXD152-C	1,500	K, M	BX	200
M123A17BXD182KC	1,800	K	BX	200
M123A17BXD222-C	2,200	K, M	BX	200
M123A17BXD272KC	2,700	K	BX	200
M123A17BXD332-C	3,300	K, M	BX	200
M123A17BXD392KC	3,900	K	BX	200
M123A17BXD472-C	4,700	K, M	BX	200
M123A17BXD562KC	5,600	K	BX	200
M123A17BXD682-C	6,800	K, M	BX	200
M123A17BXD822KC	8,200	K	BX	200
M123A17BXD103-C	10,000	K, M	BX	200
M123A17BXC123KC	12,000	K	BX	100
M123A17BXC153-C	15,000	K, M	BX	100
M123A17BXC183KC	18,000	K	BX	100
M123A17BXC223-C	22,000	K, M	BX	100
M123A17BXC273KC	27,000	K	BX	100
M123A17BXC333-C	33,000	K, M	BX	100
M123A17BXC393KC	39,000	K	BX	100
M123A17BXC473-C	47,000	K, M	BX	100
M123A17BXC563KC	56,000	K	BX	100
M123A17BXC683-C	68,000	K, M	BX	100
M123A17BXC823KC	82,000	K	BX	100
M123A17BXC104-C	100,000	K, M	BX	100
M123A17BXB124KC	120,000	K	BX	50
M123A17BXB154-C	150,000	K, M	BX	50
M123A17BXB184KC	180,000	K	BX	50
M123A17BXB224-C	220,000	K, M	BX	50

^{1/} The complete PIN shall include a symbol to indicate capacitance tolerance, as applicable.

Changes from previous issue. The margins of this specification sheet are marked with vertical lines 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 previous issue.

Custodians:

Army - CR
Navy - EC
Air Force - 19
DLA - CC
Other - NA

Preparing activity:
DLA - CC

(Project 5910-2024-041)

Review activities:

Air Force – 85

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 <https://assist.dla.mil>.