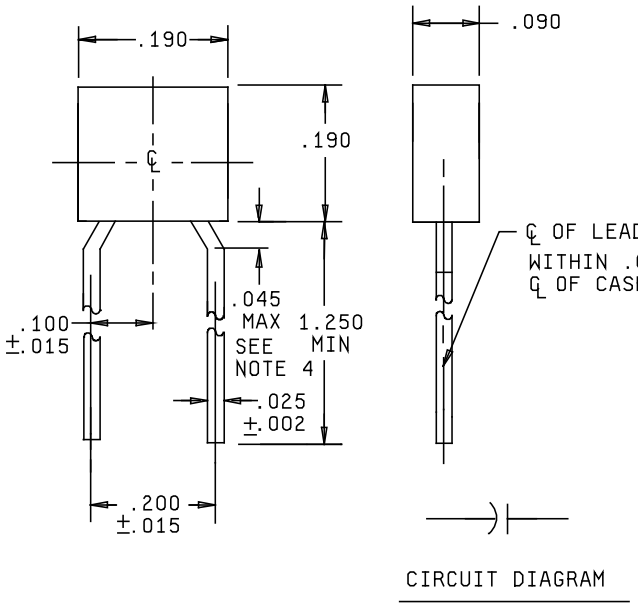
INCH-POUND
MIL-PRF-123/1F
w/AMENDMENT 1
24 June 2020
SUPERSEDING
MIL-PRF-123/1F
30 June 2019

PERFORMANCE SPECIFICATION SHEET

CAPACITOR, FIXED, CERAMIC DIELECTRIC (TEMPERATURE STABLE AND GENERAL PURPOSE), HIGH RELIABILITY, STYLE CKS05

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.



Inches	mm
.002	0.05
.015	0.38
.025	0.64
.045	1.14
.090	2.29
.100	2.54
.190	4.83
.200	5.08
1.250	31.75

NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are ± .010 inch (0.25 mm).
4. For flush mounting, .078 inch (1.98 mm) printed-circuit-hole diameter is required to clear shoulder.
5. When tape and reel packaging is specified in the acquisition documents, lead length may be a minimum of 1.0 inch (25.4 mm).

FIGURE 1. Style CKS05 capacitors.

REQUIREMENTS:

Dimensions and configuration: See figure 1.

Case type: Molded or preformed.

Lead wire: Termination C 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).

Voltage-temperature limit: BP and BX in accordance with MIL-PRF-123.

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

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

Marking: In accordance with MIL-PRF-123, example 1.

TABLE I. Style CKS05 characteristics.

Part or Identifying Number (PIN) 1/	Capacitance (pF)	Capacitance tolerance	Voltage-temperature limits	Rated voltage (volts, dc)
M123A01BPC4R7-C	4.7	C, D	BP	100
M123A01BPC5R1-C	5.1	C, D	BP	100
M123A01BPC5R6-C	5.6	C, D	BP	100
M123A01BPC6R2-C	6.2	C, D	BP	100
M123A01BPC6R8-C	6.8	C, D	BP	100
M123A01BPC7R5-C	7.5	C, D	BP	100
M123A01BPC8R2-C	8.2	C, D	BP	100
M123A01BPC9R1-C	9.1	C, D	BP	100
M123A01BPC100-C	10	C, J, K	BP	100
M123A01BPC110-C	11	C, J, K	BP	100
M123A01BPC120-C	12	C, J, K	BP	100
M123A01BPC130-C	13	C, J, K	BP	100
M123A01BPC150-C	15	C, J, K	BP	100
M123A01BPC160-C	16	C, J, K	BP	100
M123A01BPC180-C	18	C, J, K	BP	100
M123A01BP-200-C	20	C, J, K	BP	100, 200
M123A01BP-220-C	22	C, J, K	BP	100, 200
M123A01BP-240-C	24	C, J, K	BP	100, 200
M123A01BP-270-C	27	F, J, K	BP	100, 200
M123A01BP-300-C	30	F, J, K	BP	100, 200
M123A01BP-330-C	33	F, J, K	BP	100, 200
M123A01BP-360-C	36	F, J, K	BP	100, 200
M123A01BP-390-C	39	F, J, K	BP	100, 200
M123A01BP-430-C	43	F, J, K	BP	100, 200
M123A01BP-470-C	47	F, J, K	BP	100, 200
M123A01BP-510-C	51	F, J, K	BP	100, 200
M123A01BP-560-C	56	F, J, K	BP	100, 200
M123A01BP-620-C	62	F, J, K	BP	100, 200

See footnote at end of table.

TABLE I. Style CKS05 characteristics - Continued.

PIN 1/	Capacitance (pF)	Capacitance tolerance	Voltage-temperature limits	Rated voltage (volts, dc)
M123A01BP-680-C	68	F, J, K	BP	100, 200
M123A01BP-750-C	75	F, J, K	BP	100, 200
M123A01BP-820-C	82	F, J, K	BP	100, 200
M123A01BP-910-C	91	F, J, K	BP	100, 200
M123A01BP-101-C	100	F, J, K	BP	100, 200
M123A01BP-111-C	110	F, J, K	BP	100, 200
M123A01BP-121-C	120	F, J, K	BP	100, 200
M123A01BP-131-C	130	F, J, K	BP	100, 200
M123A01BP-151-C	150	F, J, K	BP	100, 200
M123A01BP-161-C	160	F, J, K	BP	100, 200
M123A01BP-181-C	180	F, J, K	BP	100, 200
M123A01BP-201-C	200	F, J, K	BP	100, 200
M123A01BP-221-C	220	F, J, K	BP	100, 200
M123A01BP-241-C	240	F, J, K	BP	100, 200
M123A01BP-271-C	270	F, J, K	BP	50, 100, 200
M123A01BP-301-C	300	F, J, K	BP	50, 100, 200
M123A01BP-331-C	330	F, J, K	BP	50, 100, 200
M123A01BP-361-C	360	F, J, K	BP	50, 100
M123A01BP-391-C	390	F, J, K	BP	50, 100
M123A01BP-431-C	430	F, J, K	BP	50, 100
M123A01BP-471-C	470	F, J, K	BP	50, 100
M123A01BP-511-C	510	F, J, K	BP	50, 100
M123A01BP-561-C	560	F, J, K	BP	50, 100
M123A01BP-621-C	620	F, J, K	BP	50, 100
M123A01BP-681-C	680	F, J, K	BP	50, 100
M123A01BP-751-C	750	F, J, K	BP	50, 100
M123A01BP-821-C	820	F, J, K	BP	50, 100
M123A01BP-911-C	910	F, J, K	BP	50, 100
M123A01BP-102-C	1,000	F, J, K	BP	50, 100
M123A01BP-112-C	1,100	F, J, K	BP	50, 100
M123A01BP-122-C	1,200	F, J, K	BP	50, 100
M123A01BP-132-C	1,300	F, J, K	BP	50, 100
M123A01BP-152-C	1,500	F, J, K	BP	50, 100
M123A01BP-162-C	1,600	F, J, K	BP	50, 100
M123A01BP-182-C	1,800	F, J, K	BP	50, 100
M123A01BPB202-C	2,000	F, J, K	BP	50
M123A01BPB222-C	2,200	F, J, K	BP	50
M123A01BPB242-C	2,400	F, J, K	BP	50
M123A01BPB272-C	2,700	F, J, K	BP	50
M123A01BPB302-C	3,000	F, J, K	BP	50
M123A01BPB332-C	3,300	F, J, K	BP	50

See footnote at end of table.

TABLE I. Style CKS05 characteristics - Continued.

PIN 1/	Capacitance (pF)	Capacitance tolerance	Voltage-temperature limits	Rated voltage (volts, dc)
M123A01BXC271KC	270	K	BX	100
M123A01BXC331KC	330	K	BX	100
M123A01BXC391KC	390	K	BX	100
M123A01BXC471KC	470	K	BX	100
M123A01BXC561KC	560	K	BX	100
M123A01BXC681KC	680	K	BX	100
M123A01BXC821KC	820	K	BX	100
M123A01BXC102KC	1,000	K	BX	100
M123A01BXC122KC	1,200	K	BX	100
M123A01BXC152KC	1,500	K	BX	100
M123A01BXC182KC	1,800	K	BX	100
M123A01BXC222KC	2,200	K	BX	100
M123A01BXC272KC	2,700	K	BX	100
M123A01BXC332KC	3,300	K	BX	100
M123A01BXC392KC	3,900	K	BX	100
M123A01BXC472KC	4,700	K	BX	100
M123A01BXB562KC	5,600	K	BX	50
M123A01BXB682KC	6,800	K	BX	50
M123A01BXB822KC	8,200	K	BX	50
M123A01BXB103KC	10,000	K	BX	50

1/ Complete PIN shall include additional symbols to indicate voltage and capacitance tolerance, if applicable.

Amendment notations. The margins of this specification sheet are marked with vertical lines to indicate modifications generated by this amendment. 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.

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

Review activities:
Air Force – 85

Preparing activity:
DLA - CC

(Project 5910-2020-012)

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.