INCH-POUND

MIL-PRF-123/12D
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SUPERSEDING
MIL-PRF-123/12C
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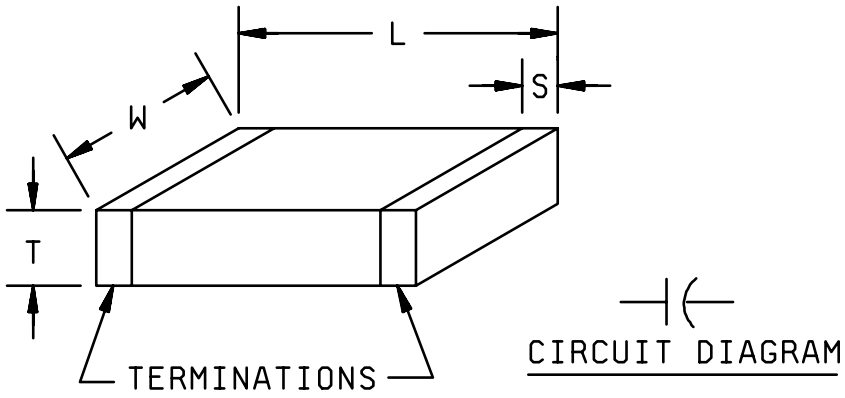
PERFORMANCE SPECIFICATION SHEET

CAPACITORS, FIXED, CERAMIC DIELECTRIC, (TEMPERATURE STABLE AND GENERAL PURPOSE), HIGH RELIABILITY, NONLEADED, STYLE CKS53

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	
.180	.080	.020	.065	.020

Inches	mm
.010	0.25
.015	0.38
.020	0.51
.065	1.65
.080	2.03
.180	4.57

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 to the positive width and thickness tolerances.

FIGURE 1. Style CKS53 capacitors.

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. (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 CKS53 characteristics.

Part or Identifying Number (PIN) 1/	Capacitance (pF)	Capacitance tolerance	Voltage-temperature limits	Rated voltage (V dc)
M123A12BP-301--	300	F, J, K	BP	50, 100
M123A12BP-331--	330	F, J, K	BP	50, 100
M123A12BP-361--	360	F, J, K	BP	50, 100
M123A12BP-391--	390	F, J, K	BP	50, 100
M123A12BP-431--	430	F, J, K	BP	50, 100
M123A12BP-471--	470	F, J, K	BP	50, 100
M123A12BP-511--	510	F, J, K	BP	50, 100
M123A12BP-561--	560	F, J, K	BP	50, 100
M123A12BP-621--	620	F, J, K	BP	50, 100
M123A12BP-681--	680	F, J, K	BP	50, 100
M123A12BP-751--	750	F, J, K	BP	50, 100
M123A12BP-821--	820	F, J, K	BP	50, 100
M123A12BP-911--	910	F, J, K	BP	50, 100
M123A12BP-102--	1,000	F, J, K	BP	50, 100
M123A12BX-562K-	5,600	K	BX	50, 100
M123A12BX-682K-	6,800	K	BX	50, 100
M123A12BX-822K-	8,200	K	BX	50, 100
M123A12BX-103K-	10,000	K	BX	50, 100
M123A12BX-123K-	12,000	K	BX	50, 100
M123A12BX-153K-	15,000	K	BX	50, 100
M123A12BX-183K-	18,000	K	BX	50, 100
M123A12BX-223K-	22,000	K	BX	50, 100
M123A12BX-273K-	27,000	K	BX	50, 100
M123A12BX-333K-	33,000	K	BX	50, 100
M123A12BXB393K-	39,000	K	BX	50
M123A12BXB473K-	47,000	K	BX	50
M123A12BXB563K-	56,000	K	BX	50
M123A12BXB683K-	68,000	K	BX	50
M123A12BXB823K-	82,000	K	BX	50
M123A12BXB104K-	100,000	K	BX	50

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

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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.