

INCH-POUND

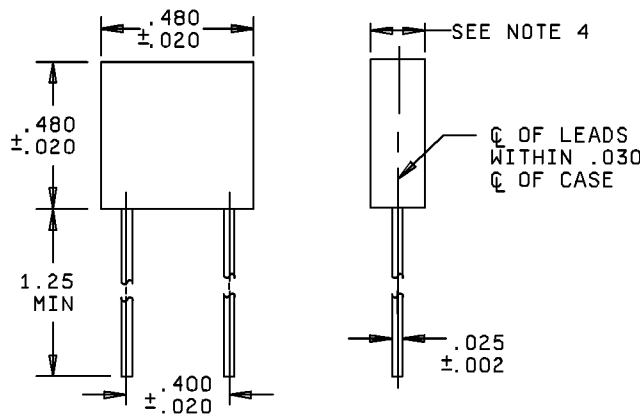
MIL-PRF-123/3D  
18 June 2001  
SUPERSEDING  
MIL-PRF-123/3C  
20 July 1988

PERFORMANCE SPECIFICATION SHEET

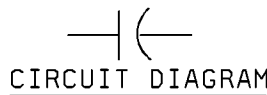
CAPACITORS, FIXED, CERAMIC DIELECTRIC,  
(TEMPERATURE STABLE AND GENERAL PURPOSE),  
HIGH RELIABILITY, LEADED, STYLE CKS07

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 and MIL-PRF-123.



| Inches | mm    |
|--------|-------|
| .002   | 0.05  |
| .020   | 0.51  |
| .025   | 0.64  |
| .030   | 0.76  |
| .400   | 10.16 |
| .480   | 12.19 |
| 1.250  | 31.75 |



NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information.
3. Unless otherwise specified tolerance is  $\pm .010$  (0.25 mm).
4. Thickness shall be  $.200$  (5.08 mm) maximum for capacitance values of 82,000, 91,000, and 100,000 pF in BP dielectric; and  $.140$  (3.56 mm)  $\pm .010$  (0.25 mm) for all others.

FIGURE 1. Style CKS07 capacitors.

MIL-PRF-123/3D

Dimensions and configuration: See figure 1.

Case type: Molded or preformed.

Lead wire: Type C32 or C51 of MIL-STD-1276.

Capacitance value: See table I.

Capacitance tolerance: See table I.

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

Voltage rating: See table I.

Marking: In accordance with MIL-PRF-123, example 2.

TABLE I. Style CKS07 characteristics.

| Part or Identifying Number (PIN) <u>1/</u> | Capacitance (pF) | Capacitance tolerance | Voltage-temperature limits | Rated voltage (volts) |
|--|------------------|-----------------------|----------------------------|-----------------------|
| M123A03BPC272-C                            | 2,700            | F, J, K               | BP                         | 100                   |
| M123A03BPC302-C                            | 3,000            | F, J, K               | BP                         | 100                   |
| M123A03BPC332-C                            | 3,300            | F, J, K               | BP                         | 100                   |
| M123A03BPC362-C                            | 3,600            | F, J, K               | BP                         | 100                   |
| M123A03BPC392-C                            | 3,900            | F, J, K               | BP                         | 100                   |
| M123A03BPC432-C                            | 4,300            | F, J, K               | BP                         | 100                   |
| M123A03BPC472-C                            | 4,700            | F, J, K               | BP                         | 100                   |
| M123A03BPC512-C                            | 5,100            | F, J, K               | BP                         | 100                   |
| M123A03BPC562-C                            | 5,600            | F, J, K               | BP                         | 100                   |
| M123A03BPC622-C                            | 6,200            | F, J, K               | BP                         | 100                   |
| M123A03BPC682-C                            | 6,800            | F, J, K               | BP                         | 100                   |
| M123A03BPC752-C                            | 7,500            | F, J, K               | BP                         | 100                   |
| M123A03BPC822-C                            | 8,200            | F, J, K               | BP                         | 100                   |
| M123A03BPC912-C                            | 9,100            | F, J, K               | BP                         | 100                   |
| M123A03BPC103-C                            | 10,000           | F, J, K               | BP                         | 100                   |
| M123A03BPB113-C                            | 11,000           | F, J, K               | BP                         | 50                    |
| M123A03BPB123-C                            | 12,000           | F, J, K               | BP                         | 50                    |
| M123A03BPB133-C                            | 13,000           | F, J, K               | BP                         | 50                    |
| M123A03BPB153-C                            | 15,000           | F, J, K               | BP                         | 50                    |
| M123A03BPB163-C                            | 16,000           | F, J, K               | BP                         | 50                    |
| M123A03BPB183-C                            | 18,000           | F, J, K               | BP                         | 50                    |
| M123A03BPB203-C                            | 20,000           | F, J, K               | BP                         | 50                    |
| M123A03BPB223-C                            | 22,000           | F, J, K               | BP                         | 50                    |
| M123A03BPB243-C                            | 24,000           | F, J, K               | BP                         | 50                    |
| M123A03BPB273-C                            | 27,000           | F, J, K               | BP                         | 50                    |
| M123A03BPB303-C                            | 30,000           | F, J, K               | BP                         | 50                    |
| M123A03BPB333-C                            | 33,000           | F, J, K               | BP                         | 50                    |
| M123A03BPB363-C                            | 36,000           | F, J, K               | BP                         | 50                    |
| M123A03BPB393-C                            | 39,000           | F, J, K               | BP                         | 50                    |
| M123A03BPB433-C                            | 43,000           | F, J, K               | BP                         | 50                    |
| M123A03BPB473-C                            | 47,000           | F, J, K               | BP                         | 50                    |
| M123A03BPB513-C                            | 51,000           | F, J, K               | BP                         | 50                    |
| M123A03BPB563-C                            | 56,000           | F, J, K               | BP                         | 50                    |

See footnote at end of table.

TABLE I. Style CKS07 characteristics - Continued.

| Part or Identifying Number (PIN) <sup>1/</sup> | Capacitance (pF) | Capacitance tolerance | Voltage-temperature limits | Rated voltage (volts) |
|--|------------------|-----------------------|----------------------------|-----------------------|
| M123A03BPB623-C                                | 62,000           | F, J, K               | BP                         | 50                    |
| M123A03BPB683-C                                | 68,000           | F, J, K               | BP                         | 50                    |
| M123A03BPB753-C                                | 75,000           | F, J, K               | BP                         | 50                    |
| M123A03BPB823-C                                | 82,000           | F, J, K               | BP                         | 50                    |
| M123A03BPB913-C                                | 91,000           | F, J, K               | BP                         | 50                    |
| M123A03BPB104-C                                | 100,000          | F, J, K               | BP                         | 50                    |
| M123A03BXC563KC                                | 56,000           | K                     | BX                         | 100                   |
| M123A03BXC683KC                                | 68,000           | K                     | BX                         | 100                   |
| M123A03BXC823KC                                | 82,000           | K                     | BX                         | 100                   |
| M123A03BXC104KC                                | 100,000          | K                     | BX                         | 100                   |
| M123A03BXC124KC                                | 120,000          | K                     | BX                         | 100                   |
| M123A03BXC154KC                                | 150,000          | K                     | BX                         | 100                   |
| M123A03BXC184KC                                | 180,000          | K                     | BX                         | 100                   |
| M123A03BXC224KC                                | 220,000          | K                     | BX                         | 100                   |
| M123A03BXC274KC                                | 270,000          | K                     | BX                         | 100                   |
| M123A03BXC334KC                                | 330,000          | K                     | BX                         | 100                   |
| M123A03BXC394KC                                | 390,000          | K                     | BX                         | 100                   |
| M123A03BXC474KC                                | 470,000          | K                     | BX                         | 100                   |
| M123A03BXB564KC                                | 560,000          | K                     | BX                         | 50                    |
| M123A03BXB684KC                                | 680,000          | K                     | BX                         | 50                    |
| M123A03BXB824KC                                | 820,000          | K                     | BX                         | 50                    |
| M123A03BXB105KC                                | 1,000,000        | K                     | BX                         | 50                    |

<sup>1/</sup> Complete PIN shall include an additional letter to indicate capacitance tolerance, if applicable.

Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

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

Preparing activity:  
DLA - CC  
(Project 5910-2127-02)

Review activities:  
Air Force - 11