

PERFORMANCE SPECIFICATION SHEET

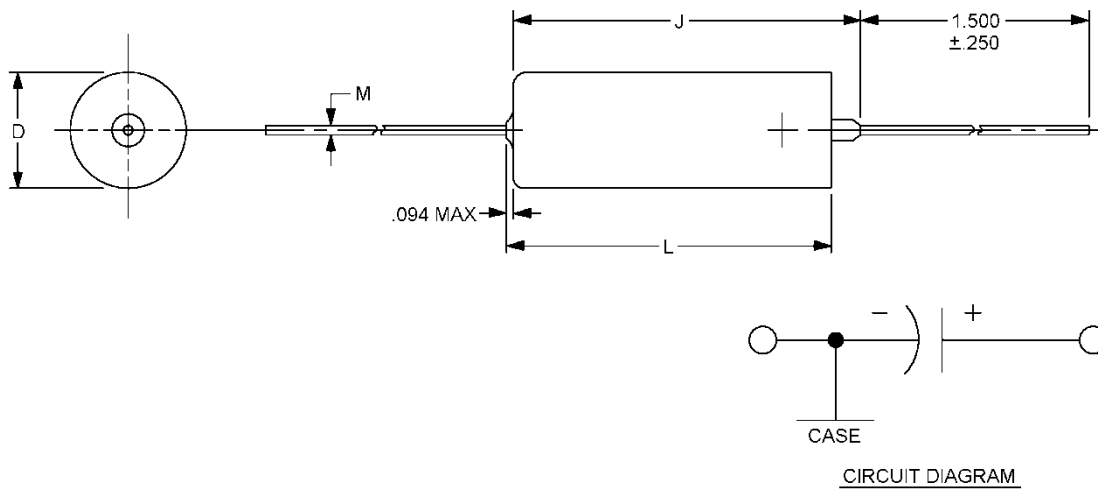
CAPACITOR, FIXED, ELECTROLYTIC (SOLID ELECTROLYTE), TANTALUM  
(POLARIZED, SINTERED SLUG), ESTABLISHED RELIABILITY,  
STYLE CSR33

FAILURE RATE LEVELS "M", "P", AND "R" ARE INACTIVE  
FOR NEW DESIGN AFTER 2 FEBRUARY 1984.

FAILURE RATE LEVEL "S" IS INACTIVE  
FOR NEW DESIGN AFTER 15 AUGUST 1984.

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-39003](#).



| Inches | mm    |
|--------|-------|
| .094   | 2.39  |
| .250   | 6.35  |
| 1.500  | 38.10 |

FIGURE 1. Dimensions and configuration.



MIL-PRF-39003/6G

| Case size | Dimensions      |                                  |                 |              |
|-----------|-----------------|----------------------------------|-----------------|--------------|
|           | L ± .031 (0.79) | D + .016 (0.41)<br>- .015 (0.38) | M ± .002 (0.05) | J max        |
| A         | .286 (7.26)     | .135 (3.43)                      | .020 (0.51)     | .422 (10.72) |
| B         | .474 (12.04)    | .185 (4.70)                      | .020 (0.51)     | .610 (15.49) |
| C         | .686 (17.42)    | .289 (7.34)                      | .025 (0.64)     | .822 (20.88) |
| D         | .786 (19.96)    | .351 (8.92)                      | .025 (0.64)     | .922 (23.42) |

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are (in parentheses) in millimeters and are given for general information only.
3. The case insulation shall extend .015 inch (0.38 mm) minimum beyond each end. However, when a shrink-fitted insulation is used, it shall lap over the ends of the capacitor body.
4. Lead length may be a minimum of 1-inch long for use in tape and reel automatic insertion equipment, when specified.

FIGURE 1. Dimensions and configuration – Continued.

REQUIREMENTS:

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

Case type: Tubular, insulated.

Material: Metal (alloy unspecified).

Type of seal: Hermetic.

Leads: Type N-32, N-52, W-32 or W-52 of [MIL-STD-1276](#).

DC rated voltage: See [table I](#). Above +85°C voltage derating is required (see [MIL-PRF-39003](#)).

DC leakage (DCL): See [table I](#).

Capacitance (Cap.) (nom): See [table I](#).

Cap. tolerance: See [table I](#).

Dissipation factor (DF): See [table I](#).

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

Failure rate level: See [table I](#).

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TABLE I. Electrical characteristics and dash numbers.

| DC<br>rated<br>voltage | Capaci-<br>tance | Capaci-<br>tance<br>tolerance | DC leakage at |                 | DF<br>at -55°C<br>through<br>+125°C<br>% | Case<br>size | Dash number M39003/06- <a href="#">1/</a><br>Failure rate level for<br>percent per 1000 hours |            |             |              |            |            |             |              |
|------------------------|------------------|-------------------------------|---------------|-----------------|------------------------------------------|--------------|-----------------------------------------------------------------------------------------------|------------|-------------|--------------|------------|------------|-------------|--------------|
|                        |                  |                               | +25°C         | +85°C<br>+125°C |                                          |              | M<br>(1.0)                                                                                    | P<br>(0.1) | R<br>(0.01) | S<br>(0.001) | G<br>(1.0) | B<br>(0.1) | C<br>(0.01) | D<br>(0.001) |
| Volts                  | μF               | %                             | μA            | μA              |                                          |              |                                                                                               |            |             |              |            |            |             |              |
| 6                      | 10               | 10                            | 0.5           | 2               | 6                                        | A            | 0001-                                                                                         | 0101-      | 0201-       | 0301-        | 5001-      | 2001-      | 3001-       | 4001-        |
| 6                      | 10               | 20                            | 0.5           | 2               | 6                                        | A            | 0002-                                                                                         | 0102-      | 0202-       | 0302-        | 5002-      | 2002-      | 3002-       | 4002-        |
| 6                      | 12               | 10                            | 0.5           | 2               | 6                                        | A            | 0003-                                                                                         | 0103-      | 0203-       | 0303-        | 5003-      | 2003-      | 3003-       | 4003-        |
| 6                      | 100              | 10                            | 1             | 3               | 8                                        | B            | 0004-                                                                                         | 0104-      | 0204-       | 0304-        | 5004-      | 2004-      | 3004-       | 4004-        |
| 6                      | 100              | 20                            | 1             | 3               | 8                                        | B            | 0005-                                                                                         | 0105-      | 0205-       | 0305-        | 5005-      | 2005-      | 3005-       | 4005-        |
| 6                      | 330              | 10                            | 2             | 8               | 8                                        | C            | 0006-                                                                                         | 0106-      | 0206-       | 0306-        | 5006-      | 2006-      | 3006-       | 4006-        |
| 6                      | 330              | 20                            | 2             | 8               | 8                                        | C            | 0007-                                                                                         | 0107-      | 0207-       | 0307-        | 5007-      | 2007-      | 3007-       | 4007-        |
| 6                      | 390              | 10                            | 2             | 8               | 10                                       | C            | 0008-                                                                                         | 0108-      | 0208-       | 0308-        | 5008-      | 2008-      | 3008-       | 4008-        |
| 6                      | 470              | 10                            | 2             | 8               | 10                                       | C            | 0009-                                                                                         | 0109-      | 0209-       | 0309-        | 5009-      | 2009-      | 3009-       | 4009-        |
| 6                      | 470              | 20                            | 2             | 8               | 10                                       | C            | 0010-                                                                                         | 0110-      | 0210-       | 0310-        | 5010-      | 2010-      | 3010-       | 4010-        |
| 6                      | 680              | 10                            | 5             | 10              | 10                                       | D            | 0011-                                                                                         | 0111-      | 0211-       | 0311-        | 5011-      | 2011-      | 3011-       | 4011-        |
| 6                      | 680              | 20                            | 5             | 10              | 10                                       | D            | 0012-                                                                                         | 0112-      | 0212-       | 0312-        | 5012-      | 2012-      | 3012-       | 4012-        |
| 6                      | 820              | 10                            | 5             | 10              | 10                                       | D            | 0013-                                                                                         | 0113-      | 0213-       | 0313-        | 5013-      | 2013-      | 3013-       | 4013-        |
| 6                      | 1000             | 10                            | 5             | 10              | 10                                       | D            | 0014-                                                                                         | 0114-      | 0214-       | 0314-        | 5014-      | 2014-      | 3014-       | 4014-        |
| 6                      | 1000             | 20                            | 5             | 10              | 10                                       | D            | 0015-                                                                                         | 0115-      | 0215-       | 0315-        | 5015-      | 2015-      | 3015-       | 4015-        |
| 10                     | 6.8              | 10                            | 0.5           | 2               | 6                                        | A            | 0016-                                                                                         | 0116-      | 0216-       | 0316-        | 5016-      | 2016-      | 3016-       | 4016-        |
| 10                     | 6.8              | 20                            | 0.5           | 2               | 6                                        | A            | 0017-                                                                                         | 0117-      | 0217-       | 0317-        | 5017-      | 2017-      | 3017-       | 4017-        |
| 10                     | 8.2              | 10                            | 0.5           | 2               | 6                                        | A            | 0018-                                                                                         | 0118-      | 0218-       | 0318-        | 5018-      | 2018-      | 3018-       | 4018-        |
| 10                     | 47               | 10                            | 1             | 2               | 6                                        | B            | 0019-                                                                                         | 0119-      | 0219-       | 0319-        | 5019-      | 2019-      | 3019-       | 4019-        |
| 10                     | 47               | 20                            | 1             | 2               | 6                                        | B            | 0020-                                                                                         | 0120-      | 0220-       | 0320-        | 5020-      | 2020-      | 3020-       | 4020-        |
| 10                     | 56               | 10                            | 1             | 4               | 6                                        | B            | 0021-                                                                                         | 0121-      | 0221-       | 0321-        | 5021-      | 2021-      | 3021-       | 4021-        |
| 10                     | 68               | 10                            | 1             | 4               | 6                                        | B            | 0022-                                                                                         | 0122-      | 0222-       | 0322-        | 5022-      | 2022-      | 3022-       | 4022-        |
| 10                     | 68               | 20                            | 1             | 4               | 6                                        | B            | 0023-                                                                                         | 0123-      | 0223-       | 0323-        | 5023-      | 2023-      | 3023-       | 4023-        |
| 10                     | 82               | 10                            | 1             | 4               | 6                                        | B            | 0024-                                                                                         | 0124-      | 0224-       | 0324-        | 5024-      | 2024-      | 3024-       | 4024-        |
| 10                     | 220              | 10                            | 1             | 7               | 8                                        | C            | 0025-                                                                                         | 0125-      | 0225-       | 0325-        | 5025-      | 2025-      | 3025-       | 4025-        |
| 10                     | 220              | 20                            | 1             | 7               | 8                                        | C            | 0026-                                                                                         | 0126-      | 0226-       | 0326-        | 5026-      | 2026-      | 3026-       | 4026-        |
| 10                     | 270              | 10                            | 2             | 10              | 8                                        | C            | 0027-                                                                                         | 0127-      | 0227-       | 0327-        | 5027-      | 2027-      | 3027-       | 4027-        |
| 10                     | 390              | 10                            | 2             | 16              | 10                                       | D            | 0028-                                                                                         | 0128-      | 0228-       | 0328-        | 5028-      | 2028-      | 3028-       | 4028-        |
| 10                     | 470              | 10                            | 4             | 16              | 10                                       | D            | 0029-                                                                                         | 0129-      | 0229-       | 0329-        | 5029-      | 2029-      | 3029-       | 4029-        |
| 10                     | 470              | 20                            | 4             | 16              | 10                                       | D            | 0030-                                                                                         | 0130-      | 0230-       | 0330-        | 5030-      | 2030-      | 3030-       | 4030-        |
| 10                     | 560              | 10                            | 4             | 16              | 10                                       | D            | 0031-                                                                                         | 0131-      | 0231-       | 0331-        | 5031-      | 2031-      | 3031-       | 4031-        |
| 15                     | 4.7              | 10                            | 0.5           | 2               | 4                                        | A            | 0032-                                                                                         | 0132-      | 0232-       | 0332-        | 5032-      | 2032-      | 3032-       | 4032-        |
| 15                     | 4.7              | 20                            | 0.5           | 2               | 4                                        | A            | 0033-                                                                                         | 0133-      | 0233-       | 0333-        | 5033-      | 2033-      | 3033-       | 4033-        |
| 15                     | 5.6              | 10                            | 0.5           | 2               | 4                                        | A            | 0034-                                                                                         | 0134-      | 0234-       | 0334-        | 5034-      | 2034-      | 3034-       | 4034-        |
| 15                     | 33               | 10                            | 1             | 2               | 6                                        | B            | 0035-                                                                                         | 0135-      | 0235-       | 0335-        | 5035-      | 2035-      | 3035-       | 4035-        |
| 15                     | 33               | 20                            | 1             | 2               | 6                                        | B            | 0036-                                                                                         | 0136-      | 0236-       | 0336-        | 5036-      | 2036-      | 3036-       | 4036-        |
| 15                     | 39               | 10                            | 1             | 2               | 6                                        | B            | 0037-                                                                                         | 0137-      | 0237-       | 0337-        | 5037-      | 2037-      | 3037-       | 4037-        |
| 15                     | 150              | 10                            | 1             | 7               | 8                                        | C            | 0038-                                                                                         | 0138-      | 0238-       | 0338-        | 5038-      | 2038-      | 3038-       | 4038-        |
| 15                     | 150              | 20                            | 1             | 7               | 8                                        | C            | 0039-                                                                                         | 0139-      | 0239-       | 0339-        | 5039-      | 2039-      | 3039-       | 4039-        |
| 15                     | 180              | 10                            | 2             | 10              | 8                                        | C            | 0040-                                                                                         | 0140-      | 0240-       | 0340-        | 5040-      | 2040-      | 3040-       | 4040-        |
| 15                     | 220              | 10                            | 2             | 10              | 8                                        | D            | 0041-                                                                                         | 0141-      | 0241-       | 0341-        | 5041-      | 2041-      | 3041-       | 4041-        |
| 15                     | 220              | 20                            | 2             | 10              | 8                                        | D            | 0042-                                                                                         | 0142-      | 0242-       | 0342-        | 5042-      | 2042-      | 3042-       | 4042-        |
| 15                     | 270              | 10                            | 2             | 16              | 8                                        | D            | 0043-                                                                                         | 0143-      | 0243-       | 0343-        | 5043-      | 2043-      | 3043-       | 4043-        |
| 15                     | 330              | 10                            | 2             | 16              | 8                                        | D            | 0044-                                                                                         | 0144-      | 0244-       | 0344-        | 5044-      | 2044-      | 3044-       | 4044-        |
| 15                     | 330              | 20                            | 2             | 16              | 8                                        | D            | 0045-                                                                                         | 0145-      | 0245-       | 0345-        | 5045-      | 2045-      | 3045-       | 4045-        |
| 20                     | 2.7              | 10                            | 0.5           | 2               | 4                                        | A            | 0046-                                                                                         | 0146-      | 0246-       | 0346-        | 5046-      | 2046-      | 3046-       | 4046-        |
| 20                     | 3.3              | 10                            | 0.5           | 2               | 4                                        | A            | 0047-                                                                                         | 0147-      | 0247-       | 0347-        | 5047-      | 2047-      | 3047-       | 4047-        |
| 20                     | 3.3              | 20                            | 0.5           | 2               | 4                                        | A            | 0048-                                                                                         | 0148-      | 0248-       | 0348-        | 5048-      | 2048-      | 3048-       | 4048-        |
| 20                     | 3.9              | 10                            | 0.5           | 2               | 4                                        | A            | 0049-                                                                                         | 0149-      | 0249-       | 0349-        | 5049-      | 2049-      | 3049-       | 4049-        |
| 20                     | 18               | 10                            | 1             | 2               | 6                                        | B            | 0050-                                                                                         | 0150-      | 0250-       | 0350-        | 5050-      | 2050-      | 3050-       | 4050-        |
| 20                     | 22               | 10                            | 1             | 2               | 6                                        | B            | 0051-                                                                                         | 0151-      | 0251-       | 0351-        | 5051-      | 2051-      | 3051-       | 4051-        |
| 20                     | 22               | 20                            | 1             | 2               | 6                                        | B            | 0052-                                                                                         | 0152-      | 0252-       | 0352-        | 5052-      | 2052-      | 3052-       | 4052-        |
| 20                     | 27               | 10                            | 1             | 2               | 6                                        | B            | 0053-                                                                                         | 0153-      | 0253-       | 0353-        | 5053-      | 2053-      | 3053-       | 4053-        |
| 20                     | 56               | 10                            | 1             | 10              | 6                                        | C            | 0054-                                                                                         | 0154-      | 0254-       | 0354-        | 5054-      | 2054-      | 3054-       | 4054-        |

See footnote at end of table.

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TABLE I. Electrical characteristics and dash numbers - Continued.

| DC<br>rated<br>voltage | Capaci-<br>tance | Capaci-<br>tance<br>tolerance | DC leakage at |                 | DF<br>at -55°C<br>through<br>+125°C<br>% | Case<br>size | Dash number M39003/06- <sup>1/</sup><br>Failure rate level for<br>percent per 1000 hours |            |             |              |            |            |             |              |
|------------------------|------------------|-------------------------------|---------------|-----------------|------------------------------------------|--------------|------------------------------------------------------------------------------------------|------------|-------------|--------------|------------|------------|-------------|--------------|
|                        |                  |                               | +25°C         | +85°C<br>+125°C |                                          |              | M<br>(1.0)                                                                               | P<br>(0.1) | R<br>(0.01) | S<br>(0.001) | G<br>(1.0) | B<br>(0.1) | C<br>(0.01) | D<br>(0.001) |
| Volts                  | μF               | %                             | μA            | μA              |                                          |              |                                                                                          |            |             |              |            |            |             |              |
| 20                     | 68               | 10                            | 1             | 10              | 6                                        | C            | 0055-                                                                                    | 0155-      | 0255-       | 0355-        | 5055-      | 2055-      | 3055-       | 4055-        |
| 20                     | 68               | 20                            | 1             | 10              | 6                                        | C            | 0056-                                                                                    | 0156-      | 0256-       | 0356-        | 5056-      | 2056-      | 3056-       | 4056-        |
| 20                     | 82               | 10                            | 1             | 10              | 6                                        | C            | 0057-                                                                                    | 0157-      | 0257-       | 0357-        | 5057-      | 2057-      | 3057-       | 4057-        |
| 20                     | 100              | 10                            | 1             | 10              | 6                                        | C            | 0058-                                                                                    | 0158-      | 0258-       | 0358-        | 5058-      | 2058-      | 3058-       | 4058-        |
| 20                     | 100              | 20                            | 1             | 10              | 6                                        | C            | 0059-                                                                                    | 0159-      | 0259-       | 0359-        | 5059-      | 2059-      | 3059-       | 4059-        |
| 20                     | 120              | 10                            | 1             | 10              | 6                                        | C            | 0060-                                                                                    | 0160-      | 0260-       | 0360-        | 5060-      | 2060-      | 3060-       | 4060-        |
| 20                     | 150              | 10                            | 2             | 10              | 8                                        | D            | 0061-                                                                                    | 0161-      | 0261-       | 0361-        | 5061-      | 2061-      | 3061-       | 4061-        |
| 20                     | 150              | 20                            | 2             | 10              | 8                                        | D            | 0062-                                                                                    | 0162-      | 0262-       | 0362-        | 5062-      | 2062-      | 3062-       | 4062-        |
| 20                     | 180              | 10                            | 2             | 10              | 8                                        | D            | 0063-                                                                                    | 0163-      | 0263-       | 0363-        | 5063-      | 2063-      | 3063-       | 4063-        |
| 35                     | 1.8              | 10                            | 0.5           | 2               | 4                                        | A            | 0064-                                                                                    | 0164-      | 0264-       | 0364-        | 5064-      | 2064-      | 3064-       | 4064-        |
| 35                     | 8.2              | 10                            | 1             | 2               | 6                                        | B            | 0065-                                                                                    | 0165-      | 0265-       | 0365-        | 5065-      | 2065-      | 3065-       | 4065-        |
| 35                     | 10               | 10                            | 1             | 2               | 6                                        | B            | 0066-                                                                                    | 0166-      | 0266-       | 0366-        | 5066-      | 2066-      | 3066-       | 4066-        |
| 35                     | 10               | 20                            | 1             | 2               | 6                                        | B            | 0067-                                                                                    | 0167-      | 0267-       | 0367-        | 5067-      | 2067-      | 3067-       | 4067-        |
| 35                     | 33               | 10                            | 1             | 5               | 6                                        | C            | 0068-                                                                                    | 0168-      | 0268-       | 0368-        | 5068-      | 2068-      | 3068-       | 4068-        |
| 35                     | 33               | 20                            | 1             | 5               | 6                                        | C            | 0069-                                                                                    | 0169-      | 0269-       | 0369-        | 5069-      | 2069-      | 3069-       | 4069-        |
| 35                     | 39               | 10                            | 1             | 5               | 6                                        | C            | 0070-                                                                                    | 0170-      | 0270-       | 0370-        | 5070-      | 2070-      | 3070-       | 4070-        |
| 35                     | 47               | 10                            | 1             | 5               | 6                                        | C            | 0071-                                                                                    | 0171-      | 0271-       | 0371-        | 5071-      | 2071-      | 3071-       | 4071-        |
| 35                     | 47               | 20                            | 1             | 5               | 6                                        | C            | 0072-                                                                                    | 0172-      | 0272-       | 0372-        | 5072-      | 2072-      | 3072-       | 4072-        |
| 35                     | 56               | 10                            | 2             | 10              | 6                                        | D            | 0073-                                                                                    | 0173-      | 0273-       | 0373-        | 5073-      | 2073-      | 3073-       | 4073-        |
| 35                     | 68               | 10                            | 2             | 10              | 6                                        | D            | 0074-                                                                                    | 0174-      | 0274-       | 0374-        | 5074-      | 2074-      | 3074-       | 4074-        |
| 35                     | 68               | 20                            | 2             | 10              | 6                                        | D            | 0075-                                                                                    | 0175-      | 0275-       | 0375-        | 5075-      | 2075-      | 3075-       | 4075-        |
| 50                     | 1.2              | 10                            | 0.5           | 2               | 4                                        | A            | 0076-                                                                                    | 0176-      | 0276-       | 0376-        | 5076-      | 2076-      | 3076-       | 4076-        |
| 50                     | 1.5              | 10                            | 0.5           | 2               | 4                                        | A            | 0077-                                                                                    | 0177-      | 0277-       | 0377-        | 5077-      | 2077-      | 3077-       | 4077-        |
| 50                     | 1.5              | 20                            | 0.5           | 2               | 4                                        | A            | 0078-                                                                                    | 0178-      | 0278-       | 0378-        | 5078-      | 2078-      | 3078-       | 4078-        |
| 50                     | 5.6              | 10                            | 1             | 2               | 4                                        | B            | 0079-                                                                                    | 0179-      | 0279-       | 0379-        | 5079-      | 2079-      | 3079-       | 4079-        |
| 50                     | 6.8              | 10                            | 1             | 2               | 6                                        | B            | 0080-                                                                                    | 0180-      | 0280-       | 0380-        | 5080-      | 2080-      | 3080-       | 4080-        |
| 50                     | 6.8              | 20                            | 1             | 2               | 6                                        | B            | 0081-                                                                                    | 0181-      | 0281-       | 0381-        | 5081-      | 2081-      | 3081-       | 4081-        |
| 50                     | 22               | 10                            | 1             | 5               | 6                                        | C            | 0082-                                                                                    | 0182-      | 0282-       | 0382-        | 5082-      | 2082-      | 3082-       | 4082-        |
| 50                     | 22               | 20                            | 1             | 5               | 6                                        | C            | 0083-                                                                                    | 0183-      | 0283-       | 0383-        | 5083-      | 2083-      | 3083-       | 4083-        |
| 50                     | 27               | 10                            | 1             | 5               | 6                                        | C            | 0084-                                                                                    | 0184-      | 0284-       | 0384-        | 5084-      | 2084-      | 3084-       | 4084-        |
| 50                     | 33               | 10                            | 1             | 9               | 6                                        | D            | 0085-                                                                                    | 0185-      | 0285-       | 0385-        | 5085-      | 2085-      | 3085-       | 4085-        |
| 50                     | 33               | 20                            | 1             | 9               | 6                                        | D            | 0086-                                                                                    | 0186-      | 0286-       | 0386-        | 5086-      | 2086-      | 3086-       | 4086-        |
| 50                     | 39               | 10                            | 1             | 9               | 6                                        | D            | 0087-                                                                                    | 0187-      | 0287-       | 0387-        | 5087-      | 2087-      | 3087-       | 4087-        |

<sup>1/</sup> Dash number shall include a letter that indicates user preference for surge current/high temperature solder or the dash will be deleted.

Stability at low and high temperatures: In accordance with MIL-PRF-39003.

Step 1 (+25°C):

DCL: See table I.

Capacitance: Within tolerance of table I value.

DF: See table I.

Step 2 (-55°C):

Capacitance: Shall not change more than  $\pm 10$  percent of step 1 measured value.

DF: See table I.

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Step 3 (+25°C):

DCL: See [table I](#).

Capacitance: Shall not change more than  $\pm 2$  percent of step 1 measured value.

DF: See [table I](#).

Step 4 (+85°C):

DCL: See [table I](#).

Capacitance: Shall not change more than  $\pm 8$  percent of step 1 measured value.

DF: See [table I](#).

Step 5 (+125°C):

DCL: See [table I](#).

Capacitance: Shall not change more than  $\pm 12$  percent of step 1 measured value.

DF: See [table I](#).

Step 6 (+25°C):

DCL: See [table I](#).

Capacitance: Shall not change more than  $\pm 2$  percent of step 1 measured value.

DF: See [table I](#).

Surge voltage: In accordance with [MIL-PRF-39003](#).

DCL: See [table I](#).

Capacitance: Shall not change more than  $\pm 2$  percent of initial measured value.

DF: See [table I](#).

Life: [MIL-STD-202-108](#).

240, 1,000, and 2,000 hours:

At +25°C (as applicable):

DCL: See [table I](#).

Capacitance: Shall not change more than  $\pm 5$  percent of initial measured value.

DF: See [table I](#).

At +85°C:

DCL: See [table I](#).

## MIL-PRF-39003/6G

At +125°C:

DCL: See [table I](#).

4,000, 6,000, 8,000, and 10,000 hours (exponential only):

At +25°C (as applicable):

DCL: 200 percent of initial limit.

Capacitance: Shall not change more than  $\pm 10$  percent of initial measured value.

DF: See [table I](#).

At +85°C:

DCL: 200 percent of initial limit.

At +125°C:

DCL: 200 percent of initial limit.

Marking: In accordance with [MIL-PRF-39003](#).

Part or Identifying Number (PIN): M39003/06-(dash number from [table I](#)).

Substitutability data: Substitutability for failure rate levels and capacitance tolerances shall be in accordance with [MIL-PRF-39003](#).

Reference documents. In addition to [MIL-PRF-39003](#), this specification sheet references the following documents.

[MIL-STD-202-108](#)  
[MIL-STD-1276](#)

Changes from previous issue. The margins of this specification are marked with vertical lines to indicate where modifications from this revision 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.

Custodians:  
Army - CR  
Navy - EC  
Air Force - 85  
DLA - CC

Preparing activity:  
DLA - CC  
(Project 5910-2022-017)

Review activities:  
Navy - AS, MC, OS, SH  
Air Force - 19

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 the ASSIST Online database at <https://assist.dla.mil/>.