

## Subminiature, Leaded Solid Tantalum Capacitors Polar or Non-Polar



### ELECTRICAL CHARACTERISTICS

**Operating Temperature Range:** -55 °C to +125 °C

**Capacitance:** measured at 120 Hz and 25 °C with a maximum of 2.2 V<sub>DC</sub> bias and 1.0 V<sub>RMS</sub> signal.

**Capacitance Tolerance:** standard tolerance is ± 20 % for ratings 0.1 µF and above, and + 40 % - 20 % for ratings below 0.1 µF. Special tolerances are also available.

**Dissipation Factor:** when measured simultaneously with capacitance, DF shall not exceed the value shown in the Standard Ratings tables.

**DC Leakage Current (DCL Max):**

when measured with DC voltage applied through a 1000 Ω resistor for 5 min, DC leakage (µA) shall not exceed:

**At 25 °C:** leakage current shall not exceed the values listed in the Standard Ratings tables.

**At 85 °C:** leakage current shall not exceed 10 times the values listed in the Standard Ratings tables.

**At 125 °C and 66 % of Rated Voltage:** leakage current shall not exceed 15 times the values listed in the Standard Ratings tables.

**Operating Voltage:** full working voltage up to 85 °C. From 85 °C to 125 °C working voltage derates linearly to 66 % of the 85 °C working voltage.

### FEATURES

- Subminiature package size and light weight
- Rectangular case with axial or radial leads
- 2 V<sub>DC</sub> to 50 V<sub>DC</sub>
- 0.1 µF to 470 µF
- Operating temperature range: -55 °C to +125 °C
- High stability and reliability
- Tested in accordance with MIL-PRF-49137
- Unique and comprehensive custom design capability

### APPLICATIONS

- Hearing aids
- Portable communications
- Space/avionics
- Laptop computers

### MECHANICAL SPECIFICATIONS

Solder coated nickel leads (type N32 per MIL-STD-1276) are standard on all case sizes.

Leads are weldable and/or solderable.

Special leads are available on request (e.g. bare nickel, gold plated nickel or ribbon leads).

Lead length is 1 1/2" [38.1 mm] minimum on non-polar parts.

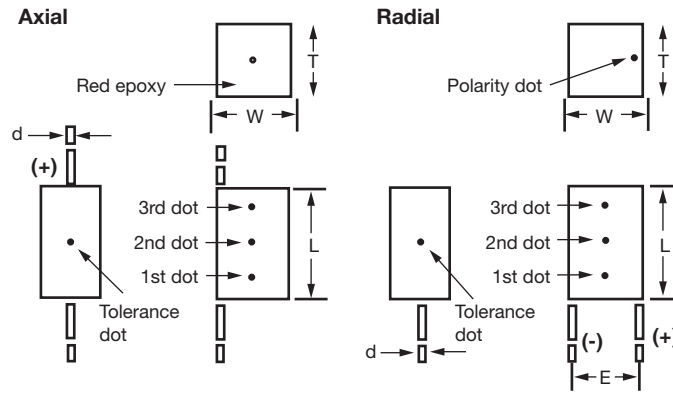
On polar parts the negative lead is 1 1/4" [31.8 mm] minimum and the positive lead is 1 1/2" [38.1 mm] minimum.

| ORDERING INFORMATION                             |                                   |   |                            |                                       |   |
|--|-----------------------------------|---|----------------------------|---------------------------------------|---|
| <b>TC</b><br>MODEL                               | <b>1.0</b><br>CAPACITANCE<br>(µF) | <b>35</b><br>DC VOLTAGE RATING<br>AT +85 °C | <b>C3</b><br>CASE CODE     | <b>A (1)</b><br>LEAD<br>CONFIGURATION | <b>M</b><br>CAPACITANCE<br>TOLERANCE                        |
|  |                                   |   | C = polar<br>N = non-polar | A = axial<br>R = radial               | E = + 40 %, - 20 %<br>M = ± 20 %<br>K = ± 10 %<br>J = ± 5 % |
| <b>EXAMPLE OF PART NUMBER CODE: TC1.0-35C3AM</b> |                                   |   |                            |                                       |   |

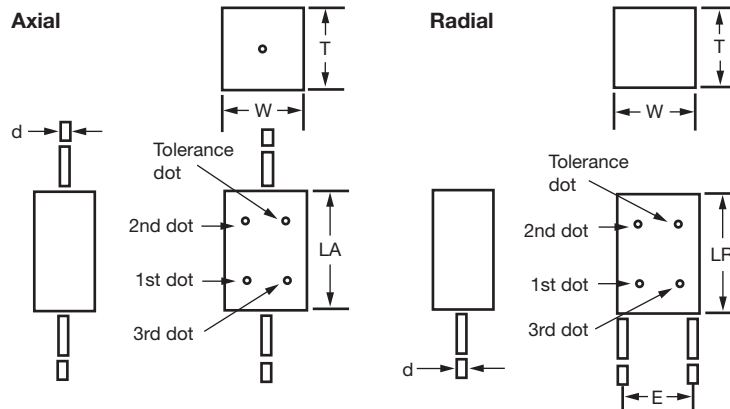
**Note**

- (1) To complete part number in rating tables, add A or R.  
Change suffix if special capacitance tolerance is required.

**DIMENSIONS** in inches [millimeters]

**POLAR STYLE**


| CASE CODE | L<br>MAX.     | W<br>MAX.    | T<br>MAX.    | E            | E TOL.<br>±  | d            |
|-----------|---------------|--------------|--------------|--------------|--------------|--------------|
| CX        | 0.075 [1.91]  | 0.050 [1.27] | 0.040 [1.02] | 0.030 [0.76] | 0.015 [0.38] | 0.007 [0.18] |
| C0        | 0.100 [2.54]  | 0.050 [1.27] | 0.040 [1.02] | 0.030 [0.76] | 0.015 [0.38] | 0.007 [0.18] |
| C1        | 0.125 [3.18]  | 0.070 [1.78] | 0.040 [1.02] | 0.050 [1.27] | 0.015 [0.38] | 0.010 [0.25] |
| C2        | 0.165 [4.19]  | 0.120 [3.05] | 0.070 [1.78] | 0.100 [2.54] | 0.020 [0.51] | 0.010 [0.25] |
| C3        | 0.225 [5.72]  | 0.185 [4.70] | 0.075 [1.91] | 0.150 [3.81] | 0.020 [0.51] | 0.010 [0.25] |
| C4        | 0.290 [7.37]  | 0.220 [5.59] | 0.110 [2.79] | 0.180 [4.57] | 0.025 [0.64] | 0.016 [0.41] |
| C5        | 0.310 [7.87]  | 0.230 [5.84] | 0.130 [3.30] | 0.200 [5.08] | 0.025 [0.64] | 0.016 [0.41] |
| C6        | 0.475 [12.07] | 0.375 [9.53] | 0.150 [3.81] | 0.300 [7.62] | 0.025 [0.64] | 0.016 [0.41] |

**NON-POLAR STYLE**


| CASE CODE | LA<br>MAX.   | LR<br>MAX.   | W<br>MAX.    | T<br>MAX.    | E            | E TOL.<br>±  | d            |
|-----------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| N1        | 0.220 [5.59] | 0.180 [4.57] | 0.125 [3.18] | 0.125 [3.18] | 0.100 [2.54] | 0.020 [0.51] | 0.010 [0.25] |
| N2        | 0.280 [7.11] | 0.240 [6.10] | 0.140 [3.56] | 0.180 [4.57] | 0.100 [2.54] | 0.025 [0.64] | 0.010 [0.25] |
| N3        | 0.370 [9.40] | 0.315 [8.00] | 0.180 [4.57] | 0.220 [5.59] | 0.150 [3.81] | 0.025 [0.64] | 0.016 [0.41] |
| N4        | 0.390 [9.91] | 0.335 [8.51] | 0.230 [5.84] | 0.230 [5.84] | 0.180 [4.57] | 0.025 [0.64] | 0.016 [0.41] |



| STANDARD RATINGS - POLAR CAPACITORS |                |                                  |           |                  |
|-------------------------------------|----------------|----------------------------------|-----------|------------------|
| CAPACITANCE<br>( $\mu$ F)           | MAX. DF<br>(%) | MAX. DCL AT +25 °C<br>( $\mu$ A) | CASE CODE | PART NUMBER      |
| <b>2 V<sub>DC</sub> AT +85 °C</b>   |                |                                  |           |                  |
| 0.47                                | 10             | 0.5                              | C0        | TC.47-2C0(1)M    |
| 0.68                                | 10             | 0.5                              | C0        | TC.68-2C0(1)M    |
| 1.0                                 | 10             | 0.5                              | C0        | TC1.0-2C0(1)M    |
| 2.2                                 | 10             | 0.5                              | C1        | TC2.2-2C1(1)M    |
| 10                                  | 10             | 0.5                              | C2        | TC10-2C2(1)M     |
| 33                                  | 10             | 1.0                              | C3        | TC33-2C3(1)M     |
| 100                                 | 15             | 2.0                              | C4        | TC100-2C4(1)M    |
| 150                                 | 15             | 3.0                              | C5        | TC150-2C5(1)M    |
| 470                                 | 20             | 9.0                              | C6        | TC470-2C6(1)M    |
| <b>3 V<sub>DC</sub> AT +85 °C</b>   |                |                                  |           |                  |
| 1.5                                 | 10             | 0.5                              | C1        | TC1.5-3C1(1)M    |
| 6.8                                 | 10             | 0.5                              | C2        | TC6.8-3C2(1)M    |
| 22                                  | 10             | 1.0                              | C3        | TC22-3C3(1)M     |
| 68                                  | 10             | 2.0                              | C4        | TC68-3C4(1)M     |
| 100                                 | 10             | 3.0                              | C5        | TC100-3C5(1)M    |
| 330                                 | 20             | 9.0                              | C6        | TC330-3C6(1)M    |
| <b>4 V<sub>DC</sub> AT +85 °C</b>   |                |                                  |           |                  |
| 0.33                                | 10             | 0.5                              | C0        | TC.33-4C0(1)M    |
| 1.0                                 | 8              | 0.5                              | C1        | TC1.0-4C1(1)M    |
| 4.7                                 | 8              | 0.5                              | C2        | TC4.7-4C2(1)M    |
| 15                                  | 8              | 1.0                              | C3        | TC15-4C3(1)M     |
| 47                                  | 8              | 2.0                              | C4        | TC47-4C4(1)M     |
| 68                                  | 8              | 3.0                              | C5        | TC68-4C5(1)M     |
| 220                                 | 15             | 9.0                              | C6        | TC220-4C6(1)M    |
| <b>6 V<sub>DC</sub> AT +85 °C</b>   |                |                                  |           |                  |
| 0.22                                | 10             | 0.5                              | C0        | TC.22-6C0(1)M    |
| 0.68                                | 6              | 0.5                              | C1        | TC.68-6C1(1)M    |
| 3.3                                 | 6              | 0.5                              | C2        | TC3.3-6C2(1)M    |
| 10                                  | 6              | 1.0                              | C3        | TC10-6C3(1)M     |
| 33                                  | 6              | 2.0                              | C4        | TC33-6C4(1)M     |
| 47                                  | 6              | 3.0                              | C5        | TC47-6C5(1)M     |
| 150                                 | 10             | 9.0                              | C6        | TC150-6C6(1)M    |
| <b>10 V<sub>DC</sub> AT +85 °C</b>  |                |                                  |           |                  |
| 0.0010                              | 10             | 0.5                              | C0        | TC.0010-10C0(1)E |
| 0.0010                              | 10             | 0.5                              | C1        | TC.0010-10C1(1)E |
| 0.0015                              | 10             | 0.5                              | C0        | TC.0015-10C0(1)E |
| 0.0015                              | 10             | 0.5                              | C1        | TC.0015-10C1(1)E |
| 0.0022                              | 10             | 0.5                              | C0        | TC.0022-10C0(1)E |
| 0.0022                              | 10             | 0.5                              | C1        | TC.0022-10C1(1)E |
| 0.0033                              | 10             | 0.5                              | C0        | TC.0033-10C0(1)E |
| 0.0033                              | 10             | 0.5                              | C1        | TC.0033-10C1(1)E |
| 0.0047                              | 10             | 0.5                              | C0        | TC.0047-10C0(1)E |
| 0.0047                              | 10             | 0.5                              | C1        | TC.0047-10C1(1)E |
| 0.15                                | 10             | 0.5                              | C0        | TC.15-10C0(1)M   |
| 0.47                                | 6              | 0.5                              | C1        | TC.47-10C1(1)M   |
| 2.2                                 | 6              | 0.5                              | C2        | TC2.2-10C2(1)M   |
| 6.8                                 | 6              | 1.0                              | C3        | TC6.8-10C3(1)M   |
| 22                                  | 6              | 2.0                              | C4        | TC22-10C4(1)M    |
| 33                                  | 6              | 3.0                              | C5        | TC33-10C5(1)M    |
| 100                                 | 8              | 9.0                              | C6        | TC100-10C6(1)M   |

**Note**

- Part number definition:  
(1) Add A for axial, R for radial



| STANDARD RATINGS - POLAR CAPACITORS |                |   |           |                 |
|-------------------------------------|----------------|---|-----------|-----------------|
| CAPACITANCE<br>( $\mu\text{F}$ )    | MAX. DF<br>(%) | MAX. DCL AT +25 °C<br>( $\mu\text{A}$ ) | CASE CODE | PART NUMBER     |
| <b>15 V<sub>DC</sub> AT +85 °C</b>  |                |   |           |                 |
| 0.10                                | 10             | 0.5                                     | C0        | TC.10-15C0(1)M  |
| 0.33                                | 6              | 0.5                                     | C1        | TC.33-15C1(1)M  |
| 1.5                                 | 6              | 0.5                                     | C2        | TC1.5-15C2(1)M  |
| 15                                  | 6              | 2.0                                     | C4        | TC15-15C4(1)M   |
| 22                                  | 6              | 3.0                                     | C5        | TC22-15C5(1)M   |
| 68                                  | 8              | 9.0                                     | C6        | TC68-15C6(1)M   |
| <b>20 V<sub>DC</sub> AT +85 °C</b>  |                |   |           |                 |
| 0.033                               | 10             | 0.5                                     | C0        | TC.033-20C0(1)E |
| 0.033                               | 6              | 0.5                                     | C1        | TC.033-20C1(1)E |
| 0.047                               | 10             | 0.5                                     | C0        | TC.047-20C0(1)E |
| 0.047                               | 6              | 0.5                                     | C1        | TC.047-20C1(1)E |
| 0.068                               | 10             | 0.5                                     | C0        | TC.068-20C0(1)E |
| 0.068                               | 6              | 0.5                                     | C1        | TC.068-20C1(1)E |
| 0.10                                | 6              | 0.5                                     | C1        | TC.10-20C1(1)M  |
| 0.15                                | 6              | 0.5                                     | C1        | TC.15-20C1(1)M  |
| 0.22                                | 6              | 0.5                                     | C1        | TC.22-20C1(1)M  |
| 1.0                                 | 6              | 0.5                                     | C2        | TC1.0-20C2(1)M  |
| 3.3                                 | 6              | 1.0                                     | C3        | TC3.3-20C3(1)M  |
| 4.7                                 | 6              | 1.0                                     | C3        | TC4.7-20C3(1)M  |
| 10                                  | 6              | 2.0                                     | C4        | TC10-20C4(1)M   |
| 15                                  | 6              | 3.0                                     | C5        | TC15-20C5(1)M   |
| 47                                  | 8              | 9.0                                     | C6        | TC47-20C6(1)M   |
| <b>25 V<sub>DC</sub> AT +85 °C</b>  |                |   |           |                 |
| 0.68                                | 6              | 0.5                                     | C2        | TC.68-25C2(1)M  |
| 2.2                                 | 6              | 1.0                                     | C3        | TC2.2-25C3(1)M  |
| 6.8                                 | 6              | 2.0                                     | C4        | TC6.8-25C4(1)M  |
| 10                                  | 6              | 3.0                                     | C5        | TC10-25C5(1)M   |
| 33                                  | 6              | 9.0                                     | C6        | TC33-25C6(1)M   |
| <b>35 V<sub>DC</sub> AT +85 °C</b>  |                |   |           |                 |
| 0.22                                | 6              | 0.5                                     | C2        | TC.22-35C2(1)M  |
| 0.33                                | 6              | 0.5                                     | C2        | TC.33-35C2(1)M  |
| 0.47                                | 6              | 0.5                                     | C2        | TC.47-35C2(1)M  |
| 0.68                                | 6              | 1.0                                     | C3        | TC.68-35C3(1)M  |
| 1.0                                 | 6              | 1.0                                     | C3        | TC1.0-35C3(1)M  |
| 1.5                                 | 6              | 1.0                                     | C3        | TC1.5-35C3(1)M  |
| 2.2                                 | 6              | 2.0                                     | C4        | TC2.2-35C4(1)M  |
| 3.3                                 | 6              | 2.0                                     | C4        | TC3.3-35C4(1)M  |
| 4.7                                 | 6              | 2.0                                     | C4        | TC4.7-35C4(1)M  |
| 6.8                                 | 6              | 3.0                                     | C5        | TC6.8-35C5(1)M  |
| 10                                  | 6              | 9.0                                     | C6        | TC10-35C6(1)M   |
| 15                                  | 6              | 9.0                                     | C6        | TC15-35C6(1)M   |
| 22                                  | 6              | 9.0                                     | C6        | TC22-35C6(1)M   |
| <b>50 V<sub>DC</sub> AT +85 °C</b>  |                |   |           |                 |
| 0.15                                | 6              | 0.5                                     | C2        | TC.15-50C2(1)M  |
| 4.7                                 | 6              | 3.0                                     | C5        | TC4.7-50C5(1)M  |
| 6.8                                 | 6              | 9.0                                     | C6        | TC6.8-50C6(1)M  |

**Note**

- Part number definition:
  - (1) Add A for axial, R for radial



| <b>STANDARD RATINGS - NON-POLAR CAPACITORS</b> |                        |   |                  |                    |
|--|------------------------|---|------------------|--------------------|
| <b>CAPACITANCE<br/>(<math>\mu</math>F)</b>     | <b>MAX. DF<br/>(%)</b> | <b>MAX. DCL AT +25 °C<br/>(<math>\mu</math>A)</b> | <b>CASE CODE</b> | <b>PART NUMBER</b> |
| <b>2 V<sub>DC</sub> AT +85 °C</b>              |                        |   |                  |                    |
| 4.7  | 10                     | 0.5   | N1               | TC4.7-2N1(1)M      |
| 15   | 10                     | 1.0   | N2               | TC15-2N2(1)M       |
| 47   | 15                     | 2.0   | N3               | TC47-2N3(1)M       |
| 68   | 15                     | 3.0   | N4               | TC68-2N4(1)M       |
| <b>3 V<sub>DC</sub> AT +85 °C</b>              |                        |   |                  |                    |
| 3.3  | 10                     | 0.5   | N1               | TC3.3-3N1(1)M      |
| 10   | 10                     | 1.0   | N2               | TC10-3N2(1)M       |
| 33   | 10                     | 2.0   | N3               | TC33-3N3(1)M       |
| 47   | 10                     | 3.0   | N4               | TC47-3N4(1)M       |
| <b>4 V<sub>DC</sub> AT +85 °C</b>              |                        |   |                  |                    |
| 2.2  | 8                      | 0.5   | N1               | TC2.2-4N1(1)M      |
| 6.8  | 8                      | 1.0   | N2               | TC6.8-4N2(1)M      |
| 22   | 8                      | 2.0   | N3               | TC22-4N3(1)M       |
| 33   | 8                      | 3.0   | N4               | TC33-4N4(1)M       |
| <b>6 V<sub>DC</sub> AT +85 °C</b>              |                        |   |                  |                    |
| 1.5  | 6                      | 0.5   | N1               | TC1.5-6N1(1)M      |
| 4.7  | 6                      | 1.0   | N2               | TC4.7-6N2(1)M      |
| 15   | 6                      | 2.0   | N3               | TC15-6N3(1)M       |
| 22   | 6                      | 3.0   | N4               | TC22-6N4(1)M       |
| <b>10 V<sub>DC</sub> AT +85 °C</b>             |                        |   |                  |                    |
| 1.0  | 6                      | 0.5   | N1               | TC1.0-10N1(1)M     |
| 3.3  | 6                      | 1.0   | N2               | TC3.3-10N2(1)M     |
| 10   | 6                      | 2.0   | N3               | TC10-10N3(1)M      |
| 15   | 6                      | 3.0   | N4               | TC15-10N4(1)M      |
| <b>15 V<sub>DC</sub> AT +85 °C</b>             |                        |   |                  |                    |
| 0.68   | 6                      | 0.5   | N1               | TC.68-15N1(1)M     |
| 6.8  | 6                      | 2.0   | N3               | TC6.8-15N3(1)M     |
| 10   | 6                      | 3.0   | N4               | TC10-15N4(1)M      |
| <b>20 V<sub>DC</sub> AT +85 °C</b>             |                        |   |                  |                    |
| 0.47   | 6                      | 0.5   | N1               | TC.47-20N1(1)M     |
| 1.5  | 6                      | 1.0   | N2               | TC1.5-20N2(1)M     |
| 2.2  | 6                      | 1.0   | N2               | TC2.2-20N2(1)M     |
| 4.7  | 6                      | 2.0   | N3               | TC4.7-20N3(1)M     |
| 6.8  | 6                      | 3.0   | N4               | TC6.8-20N4(1)M     |
| <b>25 V<sub>DC</sub> AT +85 °C</b>             |                        |   |                  |                    |
| 0.33   | 6                      | 0.5   | N1               | TC.33-25N1(1)M     |
| 1.0  | 6                      | 1.0   | N2               | TC1.0-25N2(1)M     |
| 3.3  | 6                      | 2.0   | N3               | TC3.3-25N3(1)M     |
| 4.7  | 6                      | 3.0   | N4               | TC4.7-25N4(1)M     |
| <b>35 V<sub>DC</sub> AT +85 °C</b>             |                        |   |                  |                    |
| 0.10   | 6                      | 0.5   | N1               | TC.10-35N1(1)M     |
| 0.15   | 6                      | 0.5   | N1               | TC.15-35N1(1)M     |
| 0.22   | 6                      | 0.5   | N1               | TC.22-35N1(1)M     |
| 0.33   | 6                      | 1.0   | N2               | TC.33-35N2(1)M     |
| 0.47   | 6                      | 1.0   | N2               | TC.47-35N2(1)M     |
| 0.68   | 6                      | 1.0   | N2               | TC.68-35N2(1)M     |
| 1.0  | 6                      | 2.0   | N3               | TC1.0-35N3(1)M     |
| <b>50 V<sub>DC</sub> AT +85 °C</b>             |                        |   |                  |                    |
| 2.2  | 6                      | 3.0   | N4               | TC2.2-50N4(1)M     |

**Note**

- Part number definition:
  - Add A for axial, R for radial



**MARKING**

TC Capacitors case sizes C3 - C6 and N2 - N4 are print marked:

- Capacitance is in picofarads
- 1st and 2nd digits are significant figures
- 3rd digit indicates the number of zeros.

All other case sizes have color dot marking:

| Capacitance | Color | Digit |
|-------------|-------|-------|
|-------------|-------|-------|

|  |        |   |
|--|--------|---|
| In picofarads, indicated by 3 dots.<br>1st and 2nd dot give the significant digits.<br>3rd dot indicates the number of zeros.<br>Color dot location is shown on the dimensional sketches.<br>Black dot is omitted on black sleeve. | Black  | 0 |
|  | Brown  | 1 |
|  | Red    | 2 |
|  | Orange | 3 |
|  | Yellow | 4 |
|  | Green  | 5 |
|  | Blue   | 6 |
|  | Violet | 7 |
|  | Grey   | 8 |
|  | White  | 9 |

| Capacitance Tolerance   | Color  | Tolerance     |
|---|--------|---------------|
| Is indicated by a dot on the side of the case.<br>Black dot is omitted. | Gold   | ± 5 %         |
|   | Silver | ± 10 %        |
|   | None   | ± 20 %        |
|   | None   | + 40 %/- 20 % |

The positive lead is indicated by a color dot of red epoxy on the unit.

e.g. **Yellow-Violet-Green** = 4 700 000 pF  
= 4.7 μF

**PERFORMANCE AND RELIABILITY**

The capacitors are tested in accordance with MIL-PRF-49137, with specific requirements as follows:

**Temperature Stability:** when tested per MIL-PRF-49137/6, capacitance shall be within  $\pm 15\%$  at  $-55\text{ }^\circ\text{C}$  and  $85\text{ }^\circ\text{C}$ , and  $\pm 10\%$  at  $25\text{ }^\circ\text{C}$  after exposure to temperature extremes. DF shall be within 200 % of initial limit at  $-55\text{ }^\circ\text{C}$ , 150 % of initial limit at  $85\text{ }^\circ\text{C}$ , and meet the initial at  $25\text{ }^\circ\text{C}$ . DCL shall be within 10 x initial limit at  $85\text{ }^\circ\text{C}$ , and meet the initial limit at  $25\text{ }^\circ\text{C}$ .

**Moisture Resistance:** (per method 106 of MIL-STD-202) after 10 cycles of 24 h at  $25\text{ }^\circ\text{C}$  to  $65\text{ }^\circ\text{C}$  and 80 % to 98 % RH; capacitance shall be within  $\pm 15\%$  of initial value, DF within 1.5 x initial limit and leakage within 3 x initial limit.

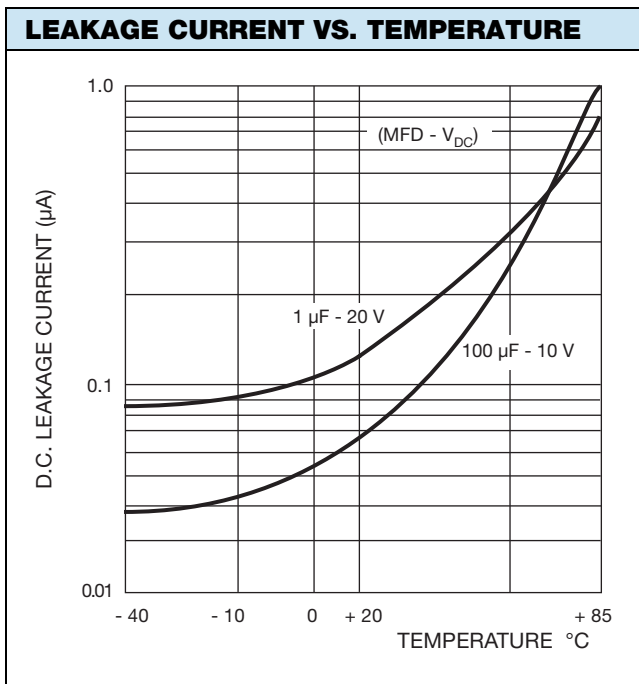
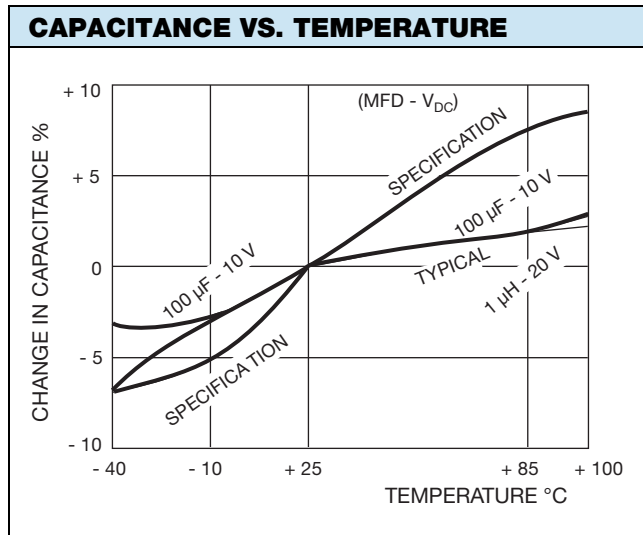
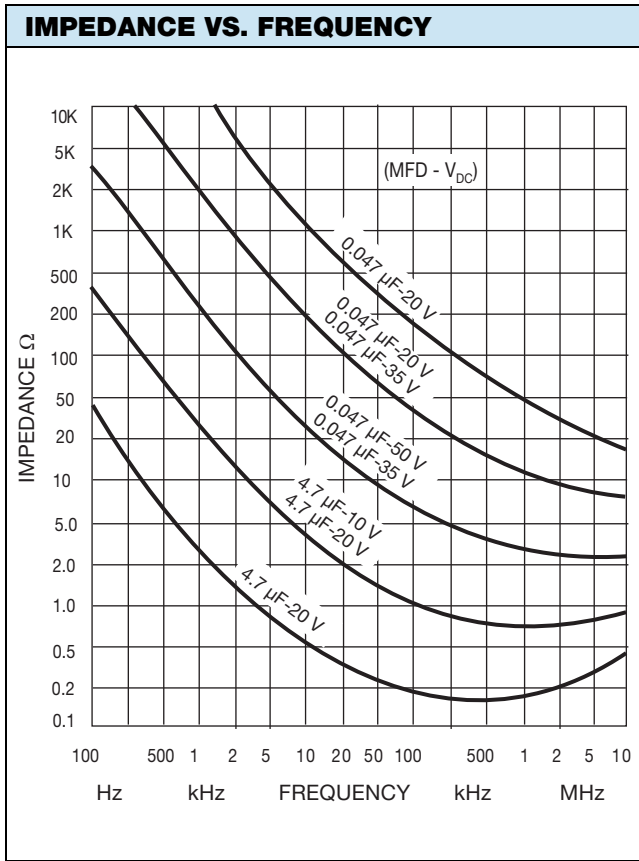
**Life:** (per method 108 of MIL-STD-202) after 1000 h at  $85\text{ }^\circ\text{C}$  and rated voltage; capacitance shall be within  $\pm 10\%$  of initial limit, DF within initial limits, and leakage within 200 % of initial limit.

**Surge Voltage:** (per MIL-PRF-49317) after 1000 cycles at  $85\text{ }^\circ\text{C}$  and  $1.3 \times V_{DC}$ ; capacitance shall be within  $\pm 10\%$  of initial limit, DF and leakage within initial limits.

**Resistance to Soldering Heat:** (per method 210 of MIL-STD-202, condition B) after immersion in  $260\text{ }^\circ\text{C}$  molten solder to within a 1/4" of the body of the unit, there shall be no evidence of mechanical or electrical degradation.

**Solderability:** (per method 208 of MIL-STD-202) after dipping leads in  $235\text{ }^\circ\text{C}$  molten solder to within 0.125" of the body of the unit, the solder shall cover 95 % of the lead surface.

**Terminal Strength:** (per method 211 of MIL-STD-202) after the following test there shall be no loosening of the terminals or permanent damage to the terminals. Test condition A: (pull test) 0.010" leads withstand 1 pound, 0.016" leads 2 pounds and 0.007" leads 1/2 pound. Test condition C: (bend test) all leads shall withstand  $3^\circ$  to  $90^\circ$  bends with a 1/2 pound applied force.





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- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
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- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,  
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(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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