

## Wet Tantalum Capacitors with Glass to Tantalum Hermetic Seal CECC 30202 Approved



### FEATURES

- For - 55°C to + 200°C operation
- All tantalum case
- Glass to tantalum hermetic seal
- Low ESR
- High CV per unit volume
- Extremely low leakage current
- High permissible ripple current
- 3 volts reverse voltage capability

### PERFORMANCE CHARACTERISTICS

**Operating Temperature:** - 55°C to + 85°C. (To + 200°C with voltage derating.)

**Capacitance Tolerance:** At 120 Hz, + 25°C. ± 20% standard. ± 10%, ± 5% available as special.

DC Leakage Current (DCL Max.):

**At + 25°C and above:** Leakage current shall not exceed the values listed in the Standard Ratings Tables.

### APPROVALS

- CECC-30202-001 style 735D
- CECC-30202-801 style 735DE
- CECC 30202-005 style CT79

### APPLICATIONS

- Designed specifically for the severe operating environment of aerospace applications, this capacitor was developed under partial sponsorship of the Marshall Space Flight Center, National Aeronautics and Space Administration. To meet aerospace requirements, the capacitors have a high resistance to damage from shock and vibration.

### ORDERING INFORMATION

CT79  
735D  
735DE

MODEL

226

CAPACITANCE

This is expressed in picofarads. The first two digits are the significant figures. The third is the number of zeros to follow.

X0

CAPACITANCE TOLERANCE

X0 = ± 20%  
X9 = ± 10%  
X5 = ± 5%

025

DC VOLTAGE RATING AT + 85°C

This is expressed in volts. To complete the three-digit block, zeros precede the voltage rating. A decimal point is indicated by an "R" (6R3 = 6.3 volts).

A

CASE CODE

See Table of Dimensions.

2

STYLE NUMBER

0 = Bare case.  
2 = Outer plastic film insulation.  
6 = High temperature film insulation (above + 125°C).

**Packaging:** The use of formed plastic trays for packaging this type of axial lead component is standard. Tape and reel is not recommended due to the unit weight.



# 735D, 735DE, CT79 (CECC 30202)

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## DIMENSIONS in inches [millimeters]



| CASE CODE    |                     | D                              | L1   | L2<br>(Max.)     | E                               | WEIGHT<br>IN GRAMS<br>(Max.) |
|--------------|---------------------|--------------------------------|--|------------------|---------------------------------|------------------------------|
| TYPE<br>735D | CLR 79/81<br>EQUIV. |                                |  |                  |                                 |                              |
| A            | T1                  | 0.188 ± 0.016<br>[4.78 ± 0.41] | 0.453 + 0.031 - 0.016<br>[11.51 + 0.79 - 0.41] | 0.734<br>[18.64] | 1.500 ± 0.250<br>[38.10 ± 6.35] | 2.6                          |
| B            | T2                  | 0.281 ± 0.016<br>[7.14 ± 0.41] | 0.641 + 0.031 - 0.016<br>[16.28 + 0.79 - 0.41] | 0.922<br>[23.42] | 2.250 ± 0.250<br>[57.15 ± 6.35] | 6.2                          |
| C            | T3                  | 0.375 ± 0.016<br>[9.53 ± 0.41] | 0.766 + 0.031 - 0.016<br>[19.46 + 0.79 - 0.41] | 1.047<br>[26.59] | 2.250 ± 0.250<br>[57.15 ± 6.35] | 11.6                         |
| D            | T4                  | 0.375 ± 0.016<br>[9.53 ± 0.41] | 1.062 + 0.031 - 0.016<br>[26.97 + 0.79 - 0.41] | 1.343<br>[34.11] | 2.250 ± 0.250<br>[57.15 ± 6.35] | 17.7                         |

\*For insulated parts, add 0.007" [0.178] to the diameter. The insulation shall lap over the ends of the capacitor body.

## STANDARD RATINGS

| μF   | CASE<br>CODE | PART NUMBER    | MAX DF           | MAX IMP.         | MAX DCL  |     | MAX CAP. CHANGE |     |     | MAX RMS<br>RIPPLE CURRENT<br>40KHz (mA) |
|--|--------------|----------------|------------------|------------------|----------|-----|-----------------|-----|-----|---|
|  |              |                | at + 20°C<br>(%) | at - 55°C<br>(Ω) | IN μA at |     | (%) at          |     |     |   |
| <b>6.3VDC at + 85°C, 4V at + 125°C, 3VDC at + 200°C</b>  |              |                |                  |                  |          |     |                 |     |     |   |
| 68   | A            | 735D686X06R3A2 | 15               | 60               | 1.0      | 2.0 | -40             | +14 | +16 | 960                                     |
| 120  | A            | 735D127X06R3A2 | 21               | 81               | 1.5      | 3.0 | -41             | +15 | +16 | 820                                     |
| 150  | A            | 735D157X06R3A2 | 34               | 80               | 2.0      | 9.0 | -42             | +16 | +16 | 820                                     |
| 220  | B            | 735D227X06R3B2 | 40               | 30               | 1.0      | 6.5 | -44             | +16 | +18 | 1370                                    |
| 470  | B            | 735D477X06R3B2 | 90               | 46               | 2.0      | 10  | -60             | +20 | +20 | 1285                                    |
| 560  | B            | 735D567X06R3B2 | 106              | 48               | 2.0      | 10  | -68             | +20 | +20 | 1255                                    |
| 560  | C            | 735D567X06R3C2 | 50               | 25               | 2.0      | 16  | -64             | +18 | +20 | 1900                                    |
| 1000   | D            | 735D108X06R3D2 | 72               | 22               | 3.0      | 14  | -80             | +25 | +25 | 2390                                    |
| 1500   | C            | 735D158X06R3C2 | 172              | 36               | 5.0      | 20  | -90             | +25 | +25 | 1615                                    |
| 2200   | D            | 735D228X06R3D2 | 170              | 22               | 6.0      | 24  | -90             | +25 | +25 | 2265                                    |
| <b>10VDC at + 85°C, 7VDC at + 125°C, 5VDC at + 200°C</b> |              |                |                  |                  |          |     |                 |     |     |   |
| 47   | A            | 735D476X0010A2 | 13               | 100              | 1.0      | 2.0 | -36             | +14 | +16 | 855                                     |
| 68   | A            | 735D686X0010A2 | 21               | 85               | 1.5      | 3.0 | -40             | +15 | +16 | 820                                     |
| 82   | A            | 735D826X0010A2 | 25               | 84               | 2.0      | 6.0 | -40             | +16 | +16 | 820                                     |
| 100  | A            | 735D107X0010A2 | 30               | 82               | 2.0      | 6.0 | -40             | +16 | +16 | 820                                     |
| 150  | B            | 735D157X0010B2 | 30               | 45               | 1.0      | 7.0 | -32             | +14 | +16 | 1275                                    |
| 180  | B            | 735D187X0010B2 | 30               | 40               | 1.0      | 7.0 | -35             | +14 | +16 | 1300                                    |
| 330  | B            | 735D337X0010B2 | 65               | 52               | 2.0      | 10  | -54             | +17 | +18 | 1195                                    |
| 390  | B            | 735D397X0010B2 | 74               | 54               | 2.0      | 10  | -60             | +19 | +20 | 1195                                    |
| 470  | C            | 735D477X0010C2 | 44               | 25               | 2.0      | 15  | -65             | +18 | +20 | 1800                                    |
| 680  | D            | 735D687X0010D2 | 46               | 20               | 3.0      | 16  | -80             | +25 | +25 | 2490                                    |
| 820  | D            | 735D827X0010D2 | 57               | 22               | 3.0      | 16  | -80             | +25 | +25 | 2360                                    |
| 1000   | C            | 735D108X0010C2 | 92               | 36               | 4.0      | 16  | -80             | +25 | +25 | 1720                                    |
| 1200   | C            | 735D128X0010C2 | 137              | 36               | 5.0      | 20  | -80             | +25 | +25 | 1720                                    |
| 1500   | D            | 735D158X0010D2 | 114              | 23               | 7.0      | 25  | -88             | +30 | +30 | 2360                                    |
| 1800   | D            | 735D188X0010D2 | 138              | 24               | 7.0      | 25  | -88             | +30 | +30 | 2360                                    |

# 735D, 735DE, CT79 (CECC 30202)



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| STANDARD RATINGS   |           |                |                      |                        |                  |                  |                        |        |         |                                   |
|--|-----------|----------------|----------------------|------------------------|------------------|------------------|------------------------|--------|---------|-----------------------------------|
| μF   | CASE CODE | PART NUMBER    | MAX DF at + 20°C (%) | MAX IMP. at - 55°C (Ω) | MAX DCL IN μA at |                  | MAX CAP. CHANGE (%) at |        |         | MAX RMS RIPPLE CURRENT 40KHz (mA) |
|  |           |                |                      |                        | + 20°C           | + 85°C & + 125°C | - 55°C                 | + 85°C | + 125°C |                                   |
| <b>16VDC at + 85°C, 10VDC at + 125°C, 8VDC at + 200°C</b>  |           |                |                      |                        |                  |                  |                        |        |         |                                   |
| 33   | A         | 735D336X0016A2 | 10                   | 90                     | 1.0              | 2.0              | -28                    | +14    | +16     | 820                               |
| 47   | A         | 735D476X0016A2 | 20                   | 100                    | 1.5              | 3.0              | -28                    | +16    | +16     | 760                               |
| 56   | A         | 735D566X0016A2 | 22                   | 100                    | 1.5              | 3.0              | -28                    | +16    | +16     | 760                               |
| 120  | B         | 735D127X0016B2 | 25                   | 50                     | 1.0              | 7.0              | -28                    | +14    | +16     | 1230                              |
| 220  | B         | 735D227X0016B2 | 42                   | 62                     | 2.0              | 10               | -35                    | +16    | +16     | 1215                              |
| 270  | B         | 735D277X0016B2 | 55                   | 60                     | 2.0              | 12               | -45                    | +18    | +18     | 1215                              |
| 330  | C         | 735D337X0016C2 | 40                   | 30                     | 2.0              | 14               | -58                    | +18    | +20     | 1760                              |
| 470  | D         | 735D477X0016D2 | 37                   | 24                     | 3.0              | 18               | -75                    | +25    | +25     | 2100                              |
| 560  | D         | 735D567X0016D2 | 40                   | 23                     | 3.0              | 18               | -80                    | +25    | +25     | 2300                              |
| 680  | C         | 735D687X0016C2 | 80                   | 42                     | 5.0              | 20               | -80                    | +25    | +25     | 1585                              |
| 820  | C         | 735D827X0016C2 | 95                   | 42                     | 6.0              | 24               | -80                    | +25    | +25     | 1585                              |
| 1000   | D         | 735D108X0016D2 | 92                   | 25                     | 8.0              | 32               | -82                    | +25    | +25     | 2300                              |
| 1200   | D         | 736D128X0016D2 | 103                  | 25                     | 8.0              | 32               | -84                    | +25    | +30     | 2300                              |
| <b>25VDC at + 85°C, 16VDC at + 125°C, 12VDC at + 200°C</b> |           |                |                      |                        |                  |                  |                        |        |         |                                   |
| 22   | A         | 735D226X0025A2 | 7                    | 140                    | 1.0              | 2.0              | -20                    | +10    | +12     | 800                               |
| 27   | A         | 735D276X0025A2 | 11                   | 140                    | 1.5              | 3.0              | -20                    | +12    | +12     | 715                               |
| 33   | A         | 735D336X0025A2 | 13                   | 130                    | 1.5              | 3.0              | -24                    | +14    | +14     | 715                               |
| 39   | A         | 735D396X0025A2 | 16                   | 120                    | 2.0              | 9.0              | -28                    | +16    | +16     | 715                               |
| 100  | B         | 735D107X0025B2 | 21                   | 50                     | 1.0              | 9.0              | -28                    | +13    | +15     | 1215                              |
| 150  | B         | 735D157X0025B2 | 35                   | 62                     | 2.0              | 10               | -35                    | +15    | +15     | 1130                              |
| 180  | B         | 735D187X0025B2 | 35                   | 60                     | 2.0              | 10               | -48                    | +14    | +15     | 1130                              |
| 220  | C         | 735D227X0025C2 | 35                   | 33                     | 2.0              | 13               | -52                    | +18    | +20     | 1615                              |
| 330  | D         | 735D337X0025D2 | 30                   | 27                     | 3.0              | 20               | -60                    | +25    | +25     | 1865                              |
| 390  | C         | 735D397X0025C2 | 48                   | 48                     | 7.0              | 28               | -70                    | +25    | +25     | 1400                              |
| 390  | D         | 735D397X0025D2 | 35                   | 24                     | 3.0              | 20               | -68                    | +25    | +25     | 2025                              |
| 470  | C         | 735D477X0025C2 | 48                   | 48                     | 7.0              | 28               | -76                    | +25    | +25     | 1400                              |
| 560  | C         | 735D567X0025C2 | 60                   | 48                     | 7.0              | 28               | -80                    | +25    | +25     | 1400                              |
| 680  | D         | 735D687X0025D2 | 60                   | 24                     | 8.0              | 32               | -80                    | +25    | +25     | 1940                              |
| 820  | D         | 735D827X0025D2 | 82                   | 26                     | 8.0              | 32               | -80                    | +25    | +25     | 1865                              |
| <b>40VDC at + 85°C, 25VDC at + 125°C, 20VDC at + 200°C</b> |           |                |                      |                        |                  |                  |                        |        |         |                                   |
| 15   | A         | 735D156X0040A2 | 7                    | 175                    | 1.0              | 2.0              | -20                    | +10    | +12     | 660                               |
| 18   | A         | 735D186X0040A2 | 10                   | 200                    | 1.5              | 4.0              | -20                    | +12    | +12     | 580                               |
| 22   | A         | 735D226X0040A2 | 11                   | 190                    | 1.5              | 4.0              | -24                    | +12    | +12     | 580                               |
| 68   | B         | 735D686X0040B2 | 15                   | 60                     | 1.0              | 8.0              | -24                    | +13    | +15     | 1285                              |
| 100  | B         | 735D107X0040B2 | 25                   | 60                     | 2.0              | 10               | -40                    | +15    | +15     | 1285                              |
| 120  | B         | 735D127X0040B2 | 30                   | 62                     | 2.0              | 12               | -32                    | +15    | +15     | 1245                              |
| 150  | C         | 735D157X0040C2 | 23                   | 35                     | 2.0              | 12               | -48                    | +14    | +15     | 1525                              |
| 220  | D         | 735D227X0040D2 | 23                   | 27                     | 3.0              | 22               | -58                    | +23    | +23     | 1900                              |
| 270  | C         | 735D277X0040C2 | 37                   | 52                     | 7.0              | 28               | -60                    | +25    | +25     | 1375                              |
| 330  | C         | 735D337X0040C2 | 43                   | 52                     | 8.0              | 32               | -65                    | +25    | +25     | 1375                              |
| 390  | D         | 735D397X0040D2 | 43                   | 30                     | 8.0              | 32               | -75                    | +25    | +25     | 1900                              |
| 470  | D         | 735D477X0040D2 | 45                   | 30                     | 9.0              | 36               | -80                    | +25    | +25     | 1900                              |



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| STANDARD RATINGS  |           |                |                            |                              |                     |         |                           |        |         |   |
|---|-----------|----------------|----------------------------|------------------------------|---------------------|---------|---------------------------|--------|---------|---|
| μF  | CASE CODE | PART NUMBER    | MAX DF<br>at + 20°C<br>(%) | MAX IMP.<br>at - 55°C<br>(Ω) | MAX DCL<br>IN μA at |         | MAX CAP. CHANGE<br>(%) at |        |         | MAX RMS<br>RIPPLE CURRENT<br>40KHz (mA) |
|   |           |                |                            |                              | + 85°C &<br>+ 20°C  | + 125°C | - 55°C                    | + 85°C | + 125°C |   |
| <b>63VDC at + 85°C, 40VDC at + 125°C, 31VDC at + 200°C</b>  |           |                |                            |                              |                     |         |                           |        |         |   |
| 10  | A         | 735D106X0063A2 | 4                          | 250                          | 1.0                 | 2.0     | -20                       | +8     | +9      | 575                                     |
| 12  | A         | 735D126X0063A2 | 7                          | 233                          | 2.0                 | 4.0     | -20                       | +8     | +9      | 575                                     |
| 15  | A         | 735D156Xo063A2 | 8                          | 220                          | 2.0                 | 9.0     | -22                       | +9     | +9      | 565                                     |
| 47  | B         | 735D476X0063B2 | 13                         | 70                           | 1.0                 | 9.0     | -24                       | +13    | +15     | 1150                                    |
| 56  | B         | 735D566X0063B2 | 18                         | 72                           | 2.0                 | 12      | -26                       | +14    | +15     | 1150                                    |
| 82  | B         | 735D826X0063B2 | 22                         | 70                           | 2.0                 | 12      | -36                       | +15    | +15     | 1150                                    |
| 100   | C         | 735D107X0063C2 | 18                         | 42                           | 2.0                 | 11      | -37                       | +14    | +15     | 1420                                    |
| 120   | C         | 735D127X0063C2 | 20                         | 49                           | 3.0                 | 18      | -40                       | +18    | +18     | 1420                                    |
| 150   | D         | 735D157X0063D2 | 17                         | 27                           | 3.0                 | 22      | -45                       | +20    | +20     | 1865                                    |
| 220   | C         | 735D227X0063C2 | 37                         | 55                           | 8.0                 | 32      | -50                       | +25    | +25     | 1345                                    |
| 270   | D         | 735D277X0063D2 | 26                         | 33                           | 9.0                 | 36      | -70                       | +24    | +25     | 1850                                    |
| 330   | D         | 735D337X0063D2 | 32                         | 31                           | 10                  | 40      | -72                       | +25    | +25     | 1850                                    |
| <b>75VDC at + 85°C, 50VDC at + 125°C, 37VDC at + 200°C</b>  |           |                |                            |                              |                     |         |                           |        |         |   |
| 6.8   | A         | 735D685X0075A2 | 3                          | 300                          | 1.0                 | 2.0     | -20                       | +8     | +9      | 610                                     |
| 8.2   | A         | 735D825X0075A2 | 6                          | 280                          | 1.5                 | 3.0     | -22                       | +9     | +9      | 610                                     |
| 33  | B         | 735D336X0075B2 | 10                         | 90                           | 1.0                 | 9.0     | -24                       | +10    | +12     | 1079                                    |
| 47  | B         | 735D476X0075B2 | 15                         | 87                           | 2.0                 | 10      | -30                       | +14    | +14     | 1055                                    |
| 68  | B         | 735D686X0075B2 | 21                         | 86                           | 2.0                 | 12      | -36                       | +15    | +15     | 1055                                    |
| 68  | C         | 735D686X0075C2 | 13                         | 50                           | 2.0                 | 10      | -30                       | +14    | +15     | 1525                                    |
| 82  | C         | 735D826X0075C2 | 15                         | 45                           | 2.0                 | 10      | -32                       | +15    | +15     | 1335                                    |
| 100   | C         | 735D107X0075C2 | 19                         | 60                           | 8.0                 | 32      | -36                       | +17    | +18     | 1335                                    |
| 120   | D         | 735D127X0075D2 | 12                         | 28                           | 3.0                 | 24      | -36                       | +20    | +20     | 1915                                    |
| 150   | C         | 735D157X0075C2 | 25                         | 60                           | 9.0                 | 36      | -40                       | +20    | +20     | 1335                                    |
| 150   | D         | 735D157X0075D2 | 17                         | 30                           | 9.0                 | 36      | -48                       | +21    | +22     | 1915                                    |
| 180   | C         | 735D187X0075C2 | 28                         | 60                           | 9.0                 | 36      | -50                       | +22    | +22     | 1335                                    |
| 220   | D         | 735D227X0075D2 | 37                         | 32                           | 10                  | 40      | -60                       | +22    | +22     | 1850                                    |
| <b>100VDC at + 85°C, 70VDC at + 125°C, 50VDC at + 200°C</b> |           |                |                            |                              |                     |         |                           |        |         |   |
| 4.7   | A         | 735D475X0100A2 | 3                          | 500                          | 1.0                 | 2.0     | -16                       | +7     | +8      | 565                                     |
| 5.6   | A         | 735D565X0100A2 | 6                          | 475                          | 2.0                 | 5.0     | -17                       | +8     | +8      | 530                                     |
| 22  | B         | 735D226X0100B2 | 8                          | 100                          | 1.0                 | 9.0     | -16                       | +8     | +8      | 1065                                    |
| 33  | B         | 735D336X0100B2 | 14                         | 95                           | 3.0                 | 15      | -16                       | +8     | +8      | 1065                                    |
| 33  | C         | 735D336X0100C2 | 7                          | 93                           | 2.0                 | 10      | -16                       | +8     | +8      | 1200                                    |
| 39  | B         | 735D396X0100B2 | 10                         | 92                           | 2.0                 | 12      | -24                       | +12    | +12     | 1065                                    |
| 39  | C         | 735D396X0100C2 | 8                          | 90                           | 2.0                 | 10      | -16                       | +8     | +8      | 1285                                    |
| 47  | C         | 735D476X0100C2 | 9                          | 70                           | 2.0                 | 10      | -23                       | +10    | +10     | 1390                                    |
| 56  | C         | 735D566X0100C2 | 11                         | 60                           | 2.0                 | 10      | -28                       | +14    | +15     | 1335                                    |
| 68  | C         | 735D686X0100C2 | 15                         | 60                           | 10                  | 40      | -30                       | +15    | +15     | 1335                                    |
| 68  | D         | 735D686X0100D2 | 8                          | 42                           | 3.0                 | 26      | -24                       | +15    | +15     | 1860                                    |
| 82  | D         | 735D826X0100D2 | 10                         | 39                           | 3.0                 | 24      | -24                       | +18    | +18     | 1860                                    |
| 100   | D         | 735D107X0100D2 | 11                         | 36                           | 3.0                 | 24      | -35                       | +20    | +20     | 1860                                    |
| <b>125VDC at + 85°C, 85VDC at + 125°C, 62VDC at + 200°C</b> |           |                |                            |                              |                     |         |                           |        |         |   |
| 2.7   | A         | 735D275X0125A2 | 3                          | 780                          | 1.0                 | 2.0     | -16                       | +7     | +8      | 455                                     |
| 3.3   | A         | 735D335X0125A2 | 3                          | 600                          | 1.0                 | 2.0     | -16                       | +7     | +8      | 495                                     |
| 3.9   | A         | 735D395X0125A2 | 3.5                        | 557                          | 2.0                 | 5.0     | -16                       | +8     | +8      | 495                                     |
| 15  | B         | 735D156X0125B2 | 6                          | 167                          | 1.0                 | 7.0     | -16                       | +7     | +8      | 1050                                    |
| 18  | B         | 735D186X0125B2 | 8                          | 133                          | 2.0                 | 10      | -16                       | +8     | +8      | 1065                                    |
| 39  | C         | 735D396X0125C2 | 8                          | 90                           | 2.0                 | 10      | -16                       | +8     | +8      | 1285                                    |
| 47  | C         | 735D476X0125C2 | 9                          | 70                           | 2.0                 | 10      | -23                       | +10    | +10     | 1285                                    |
| 68  | D         | 735D686X0125D2 | 8                          | 42                           | 3.0                 | 26      | -24                       | +15    | +15     | 1860                                    |
| 82  | D         | 735D826X0125D2 | 10                         | 39                           | 3.0                 | 24      | -24                       | +18    | +18     | 1860                                    |

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| <b>STANDARD RATINGS</b> to mil range CLR79                |           |                |                            |                              |                     |                     |                           |        |         |   |
|---|-----------|----------------|----------------------------|------------------------------|---------------------|---------------------|---------------------------|--------|---------|---|
| μF  | CASE CODE | PART NUMBER    | MAX DF<br>at + 25°C<br>(%) | MAX IMP.<br>at - 55°C<br>(Ω) | MAX DCL<br>IN μA at |                     | MAX CAP. CHANGE<br>(%) at |        |         | MAX RMS<br>RIPPLE CURRENT<br>40KHz (mA) |
|   |           |                |                            |                              | + 25°C              | + 85°C &<br>+ 125°C | - 55°C                    | + 85°C | + 125°C |   |
| <b>6VDC at + 85°C, 4V at + 125°C, 3VDC at + 200°C</b>     |           |                |                            |                              |                     |                     |                           |        |         |   |
| 30  | A         | 735D306X0006A2 | 4.0                        | 100                          | 0.75                | 1.5                 | -40                       | +12    | +12     | 820                                     |
| 68  | A         | 735D686X0006A2 | 2.9                        | 60                           | 0.75                | 1.5                 | -40                       | +16    | +16     | 960                                     |
| 140   | B         | 735D147X0006B2 | 2.2                        | 40                           | 1.0                 | 3.0                 | -40                       | +16    | +16     | 1200                                    |
| 160   | A         | 735D167X0006A2 | 4.0                        | 80                           | 1.5                 | 3.0                 | -42                       | +16    | +16     | 820                                     |
| 270   | B         | 735D277X0006B2 | 2.0                        | 25                           | 1.0                 | 2.0                 | -44                       | +20    | +20     | 1375                                    |
| 330   | C         | 735D337X0006C2 | 1.4                        | 20                           | 2.0                 | 6.0                 | -44                       | +16    | +16     | 1800                                    |
| 560   | B         | 735D567X0006B2 | 2.4                        | 48                           | 2.0                 | 10                  | -68                       | +20    | +20     | 1255                                    |
| 560   | C         | 735D567X0006C2 | 1.3                        | 25                           | 2.0                 | 6.0                 | -64                       | +20    | +20     | 1900                                    |
| 1200  | D         | 735D128X0006D2 | 0.9                        | 20                           | 3.0                 | 12                  | -80                       | +25    | +25     | 2388                                    |
| 1500  | C         | 735D158X0006C2 | 1.8                        | 36                           | 3.0                 | 15                  | -84                       | +25    | +25     | 1615                                    |
| 2200  | D         | 735D228X0006D2 | 1.0                        | 22                           | 4.0                 | 15                  | -86                       | +25    | +25     | 2265                                    |
| <b>8VDC at + 85°C, 5VDC at + 125°C, 4VDC at + 200°C</b>   |           |                |                            |                              |                     |                     |                           |        |         |   |
| 25  | A         | 735D256X0008A2 | 4.0                        | 100                          | 0.75                | 1.5                 | -40                       | +12    | +12     | 820                                     |
| 56  | A         | 735D566X0008A2 | 3.3                        | 59                           | 0.75                | 1.5                 | -40                       | +16    | +16     | 900                                     |
| 120   | A         | 735D127X0008A2 | 4.0                        | 80                           | 1.0                 | 2.0                 | -44                       | +20    | +16     | 820                                     |
| 120   | B         | 735D127X0008B2 | 2.6                        | 50                           | 1.0                 | 2.0                 | -44                       | +20    | +16     | 1230                                    |
| 220   | B         | 735D227X0008B2 | 2.4                        | 30                           | 1.0                 | 2.0                 | -44                       | +18    | +20     | 1300                                    |
| 290   | C         | 735D297X0008C2 | 1.8                        | 25                           | 2.0                 | 6.0                 | -64                       | +20    | +16     | 1745                                    |
| 430   | B         | 735D437X0008B2 | 2.6                        | 54                           | 2.0                 | 10                  | -64                       | +20    | +20     | 1230                                    |
| 430   | C         | 735D437X0008C2 | 1.4                        | 25                           | 2.0                 | 6.0                 | -64                       | +20    | +20     | 1825                                    |
| 850   | D         | 735D857X0008D2 | 1.0                        | 22                           | 3.0                 | 12                  | -80                       | +25    | +25     | 2456                                    |
| <b>10VDC at + 85°C, 7VDC at + 125°C, 5VDC at + 200°C</b>  |           |                |                            |                              |                     |                     |                           |        |         |   |
| 20  | A         | 735D206X0010A2 | 4.0                        | 175                          | 0.75                | 1.5                 | -32                       | +12    | +12     | 820                                     |
| 100   | B         | 735D107X0010B2 | 2.4                        | 60                           | 1.0                 | 2.0                 | -35                       | +16    | +16     | 1200                                    |
| 250   | C         | 735D257X0010C2 | 1.8                        | 30                           | 2.0                 | 6.0                 | -40                       | +16    | +16     | 1720                                    |
| 300   | B         | 735D307X0010B2 | 2.6                        | 52                           | 2.0                 | 5.0                 | -54                       | +18    | +18     | 1195                                    |
| 350   | B         | 735D357X0010B2 | 2.6                        | 52                           | 2.0                 | 5.0                 | -60                       | +18    | +18     | 1195                                    |
| 390   | C         | 735D397X0010C2 | 1.5                        | 25                           | 2.0                 | 6.0                 | -64                       | +20    | +20     | 1800                                    |
| 750   | D         | 735D757X0010D2 | 0.9                        | 22                           | 3.0                 | 12                  | -80                       | +25    | +25     | 2487                                    |
| 850   | C         | 735D857X0010C2 | 1.8                        | 36                           | 3.0                 | 12                  | -84                       | +25    | +25     | 1720                                    |
| <b>15VDC at + 85°C, 10VDC at + 125°C, 7VDC at + 200°C</b> |           |                |                            |                              |                     |                     |                           |        |         |   |
| 15  | A         | 735D156X0015A2 | 4.4                        | 155                          | 0.75                | 1.5                 | -24                       | +12    | +12     | 780                                     |
| 33  | A         | 735D336X0015A2 | 4.0                        | 90                           | 0.75                | 1.5                 | -28                       | +16    | +16     | 820                                     |
| 47  | A         | 735D476X0015A2 | 4.7                        | 100                          | 1.0                 | 2.0                 | -28                       | +16    | +16     | 760                                     |
| 56  | A         | 735D566X0015A2 | 4.7                        | 100                          | 1.0                 | 2.0                 | -28                       | +16    | +16     | 760                                     |
| 70  | B         | 735D706X0015B2 | 2.8                        | 75                           | 1.0                 | 2.0                 | -28                       | +16    | +16     | 1150                                    |
| 120   | B         | 735D127X0015B2 | 2.6                        | 50                           | 1.0                 | 2.0                 | -28                       | +16    | +16     | 1230                                    |
| 170   | C         | 735D177X0015C2 | 2.4                        | 35                           | 2.0                 | 6.0                 | -32                       | +16    | +16     | 1480                                    |
| 220   | B         | 735D227X0015B2 | 2.8                        | 62                           | 2.0                 | 5.0                 | -35                       | +16    | +16     | 1215                                    |
| 270   | B         | 735D277X0015B2 | 2.8                        | 60                           | 2.0                 | 5.0                 | -45                       | +18    | +18     | 1215                                    |
| 270   | C         | 735D277X0015C2 | 2.2                        | 30                           | 2.0                 | 6.0                 | -56                       | +20    | +20     | 1709                                    |
| 290   | B         | 735D297X0015B2 | 2.8                        | 65                           | 2.0                 | 5.0                 | -54                       | +18    | +18     | 1215                                    |
| 540   | D         | 735D547X0015D2 | 1.0                        | 23                           | 3.0                 | 12                  | -80                       | +25    | +25     | 2300                                    |
| 750   | C         | 735D757X0015C2 | 2.1                        | 42                           | 3.0                 | 15                  | -80                       | +25    | +25     | 1582                                    |
| 850   | D         | 735D857X0015D2 | 1.0                        | 24                           | 4.0                 | 15                  | -80                       | +25    | +25     | 2300                                    |
| 1200  | D         | 735D128X0015D2 | 1.0                        | 25                           | 4.0                 | 15                  | -84                       | +25    | +25     | 2300                                    |



# 735D, 735DE, CT79 (CECC 30202)

Wet Tantalum Capacitors with Glass to  
Tantalum Hermetic Seal CECC 30202 Approved

Vishay Tansitor

| <b>STANDARD RATINGS</b> to mil range CLR79                 |           |                |                            |                              |                     |                     |                           |        |         |   |
|--|-----------|----------------|----------------------------|------------------------------|---------------------|---------------------|---------------------------|--------|---------|---|
| μF   | CASE CODE | PART NUMBER    | MAX DF<br>at + 25°C<br>(%) | MAX IMP.<br>at - 55°C<br>(Ω) | MAX DCL<br>IN μA at |                     | MAX CAP. CHANGE<br>(%) at |        |         | MAX RMS<br>RIPPLE CURRENT<br>40KHz (mA) |
|  |           |                |                            |                              | + 25°C              | + 85°C &<br>+ 125°C | - 55°C                    | + 85°C | + 125°C |   |
| <b>25VDC at + 85°C, 15VDC at + 125°C, 12VDC at + 200°C</b> |           |                |                            |                              |                     |                     |                           |        |         |   |
| 10   | A         | 735D106X0025A2 | 5.3                        | 220                          | 0.75                | 1.5                 | -16                       | + 9    | + 9     | 715                                     |
| 43   | A         | 735D436X0025A2 | 5.3                        | 120                          | 1.5                 | 3.0                 | -28                       | +16    | +16     | 715                                     |
| 50   | B         | 735D506X0025B2 | 3.0                        | 70                           | 1.0                 | 2.0                 | -28                       | +15    | +15     | 1130                                    |
| 120  | C         | 735D127X0025C2 | 2.6                        | 38                           | 2.0                 | 6.0                 | -32                       | +15    | +15     | 1420                                    |
| 160  | B         | 735D167X0025B2 | 3.0                        | 60                           | 2.0                 | 5.0                 | -35                       | +15    | +15     | 1130                                    |
| 180  | C         | 735D187X0025C2 | 2.0                        | 32                           | 2.0                 | 6.0                 | -48                       | +15    | +15     | 1531                                    |
| 350  | D         | 735D357X0025D2 | 1.0                        | 24                           | 3.0                 | 12                  | -64                       | +25    | +25     | 2246                                    |
| 850  | D         | 735D857X0025D2 | 1.3                        | 26                           | 4.0                 | 15                  | -80                       | +25    | +25     | 1970                                    |
| <b>30VDC at + 85°C, 20VDC at + 125°C, 15VDC at + 200°C</b> |           |                |                            |                              |                     |                     |                           |        |         |   |
| 8.0  | A         | 735D805X0030A2 | 6.6                        | 275                          | 0.75                | 1.5                 | -16                       | +12    | +12     | 640                                     |
| 15   | A         | 735D156X0030A2 | 6.2                        | 175                          | 0.75                | 1.5                 | -20                       | +12    | +12     | 660                                     |
| 25   | A         | 735D256X0030A2 | 6.6                        | 160                          | 1.5                 | 3.0                 | -24                       | +12    | +12     | 640                                     |
| 33   | A         | 735D336X0030A2 | 6.6                        | 160                          | 1.5                 | 3.0                 | -26                       | +12    | +12     | 640                                     |
| 40   | B         | 735D406X0030B2 | 3.7                        | 65                           | 1.0                 | 2.0                 | -24                       | +12    | +12     | 1065                                    |
| 68   | B         | 735D686X0030B2 | 2.8                        | 60                           | 1.0                 | 2.0                 | -24                       | +15    | +15     | 1215                                    |
| 100  | C         | 735D107X0030C2 | 2.6                        | 40                           | 2.0                 | 6.0                 | -28                       | +12    | +12     | 1477                                    |
| 120  | B         | 735D127X0030B2 | 3.0                        | 60                           | 2.0                 | 5.0                 | -32                       | +15    | +15     | 1185                                    |
| 150  | B         | 735D157X0030B2 | 3.0                        | 60                           | 2.0                 | 6.0                 | -35                       | +15    | +15     | 1185                                    |
| 150  | C         | 735D157X0030C2 | 2.3                        | 35                           | 2.0                 | 6.0                 | -48                       | +15    | +15     | 1525                                    |
| 170  | B         | 735D177X0030B2 | 3.0                        | 65                           | 2.0                 | 7.0                 | -48                       | +15    | +15     | 1185                                    |
| 300  | C         | 735D307X0030C2 | 2.2                        | 44                           | 3.0                 | 12                  | -60                       | +15    | +15     | 1559                                    |
| 300  | D         | 735D307X0030D2 | 1.2                        | 31                           | 3.0                 | 12                  | -60                       | +25    | +25     | 2100                                    |
| 330  | C         | 735D337X0030C2 | 2.6                        | 52                           | 3.0                 | 12                  | -65                       | +25    | +25     | 1373                                    |
| 350  | C         | 735D357X0030C2 | 2.6                        | 52                           | 3.0                 | 15                  | -70                       | +25    | +25     | 1477                                    |
| 390  | C         | 735D397X0030C2 | 2.6                        | 52                           | 3.0                 | 15                  | -75                       | +25    | +25     | 1477                                    |
| 430  | C         | 735D437X0030C2 | 2.6                        | 54                           | 3.0                 | 15                  | -80                       | +25    | +25     | 1477                                    |
| 560  | D         | 735D567X0030D2 | 1.4                        | 30                           | 4.0                 | 20                  | -80                       | +25    | +25     | 1050                                    |
| <b>50VDC at + 85°C, 30VDC at + 125°C, 25VDC at + 200°C</b> |           |                |                            |                              |                     |                     |                           |        |         |   |
| 5.0  | A         | 735D505X0050A2 | 8.0                        | 400                          | 0.75                | 2.0                 | -16                       | + 6    | + 6     | 580                                     |
| 10   | A         | 735D106X0050A2 | 6.4                        | 250                          | 0.75                | 2.0                 | -20                       | + 9    | + 9     | 640                                     |
| 18   | A         | 735D186X0050A2 | 8.0                        | 200                          | 1.5                 | 3.0                 | -24                       | +12    | +12     | 580                                     |
| 22   | A         | 735D226X0050A2 | 8.0                        | 190                          | 1.5                 | 4.0                 | -24                       | +12    | +12     | 580                                     |
| 25   | B         | 735D256X0050B2 | 4.6                        | 95                           | 1.0                 | 3.0                 | -20                       | +12    | +12     | 1065                                    |
| 47   | B         | 735D476X0050B2 | 3.7                        | 70                           | 1.0                 | 3.0                 | -24                       | +15    | +15     | 1215                                    |
| 60   | C         | 735D606X0050C2 | 2.9                        | 45                           | 2.0                 | 7.0                 | -16                       | +12    | +12     | 1285                                    |
| 82   | C         | 735D826X0050C2 | 2.3                        | 45                           | 2.0                 | 7.0                 | -32                       | +15    | +15     | 1460                                    |
| 100  | B         | 735D107X0050B2 | 3.2                        | 67                           | 2.0                 | 7.0                 | -40                       | +15    | +15     | 1150                                    |
| 160  | D         | 735D167X0050D2 | 1.3                        | 27                           | 3.0                 | 16                  | -50                       | +23    | +23     | 2040                                    |
| 270  | C         | 735D277X0050C2 | 2.6                        | 52                           | 3.0                 | 15                  | -60                       | +25    | +25     | 1373                                    |
| 350  | D         | 735D357X0050D2 | 1.5                        | 30                           | 4.0                 | 20                  | -70                       | +25    | +25     | 1900                                    |
| 390  | D         | 735D397X0050D2 | 1.5                        | 30                           | 5.0                 | 25                  | -75                       | +25    | +25     | 1900                                    |
| 430  | D         | 735D437X0050D2 | 1.5                        | 31                           | 5.0                 | 25                  | -80                       | +25    | +25     | 1900                                    |

# 735D, 735DE, CT79 (CECC 30202)



Vishay Tansitor

Wet Tantalum Capacitors with Glass to  
Tantalum Hermetic Seal CECC 30202 Approved

| <b>STANDARD RATINGS</b> to mil range CLR79                  |           |                |                            |                              |                     |                     |                           |        |         |   |
|---|-----------|----------------|----------------------------|------------------------------|---------------------|---------------------|---------------------------|--------|---------|---|
| μF  | CASE CODE | PART NUMBER    | MAX DF<br>at + 25°C<br>(%) | MAX IMP.<br>at - 55°C<br>(Ω) | MAX DCL<br>IN μA at |                     | MAX CAP. CHANGE<br>(%) at |        |         | MAX RMS<br>RIPPLE CURRENT<br>40KHz (mA) |
|   |           |                |                            |                              | + 25°C              | + 85°C &<br>+ 125°C | - 55°C                    | + 85°C | + 125°C |   |
| <b>60VDC at + 85°C, 40VDC at + 125°C, 30VDC at + 200°C</b>  |           |                |                            |                              |                     |                     |                           |        |         |   |
| 4.0   | A         | 735D405X0060A2 | 9.3                        | 550                          | 0.75                | 2.0                 | -16                       | +6     | +6      | 525                                     |
| 8.2   | A         | 735D825X0060A2 | 6.6                        | 275                          | 0.75                | 2.0                 | -20                       | +9     | +9      | 625                                     |
| 20  | B         | 735D206X0060B2 | 4.0                        | 105                          | 1.0                 | 4.0                 | -16                       | +12    | +12     | 1026                                    |
| 39  | B         | 735D396X0060B2 | 3.0                        | 90                           | 1.0                 | 4.0                 | -24                       | +12    | +12     | 1185                                    |
| 50  | C         | 735D506X0060C2 | 2.6                        | 50                           | 2.0                 | 7.0                 | -16                       | +12    | +12     | 1341                                    |
| 68  | C         | 735D686X0060C2 | 2.4                        | 50                           | 2.0                 | 7.0                 | -30                       | +15    | +15     | 1393                                    |
| 82  | B         | 735D826X0060B2 | 3.2                        | 70                           | 2.0                 | 7.0                 | -36                       | +15    | +15     | 1150                                    |
| 140   | D         | 735D147X0060D2 | 1.3                        | 28                           | 3.0                 | 16                  | -40                       | +20    | +20     | 1990                                    |
| 220   | C         | 735D227X0060C2 | 2.6                        | 55                           | 3.0                 | 15                  | -50                       | +25    | +25     | 1341                                    |
| 270   | D         | 735D277X0060D2 | 1.5                        | 33                           | 5.0                 | 22                  | -70                       | +25    | +25     | 1850                                    |
| 330   | D         | 735D337X0060D2 | 1.5                        | 31                           | 5.0                 | 25                  | -72                       | +25    | +25     | 1850                                    |
| <b>75VDC at + 85°C, 50VDC at + 125°C, 37VDC at + 200°C</b>  |           |                |                            |                              |                     |                     |                           |        |         |   |
| 3.5   | A         | 735D355X0075A2 | 9.5                        | 650                          | 1.0                 | 2.0                 | -16                       | +6     | +6      | 525                                     |
| 9.0   | A         | 735D905X0075A2 | 8.2                        | 280                          | 2.0                 | 5.0                 | -20                       | +9     | +9      | 572                                     |
| 15  | B         | 735D156X0075B2 | 5.0                        | 150                          | 1.0                 | 4.0                 | -16                       | +9     | +9      | 1000                                    |
| 40  | C         | 735D406X0075C2 | 3.0                        | 60                           | 2.0                 | 8.0                 | -16                       | +12    | +12     | 1293                                    |
| 43  | B         | 735D436X0075B2 | 3.8                        | 89                           | 2.0                 | 8.0                 | -24                       | +12    | +12     | 1051                                    |
| 56  | B         | 735D566X0075B2 | 3.8                        | 84                           | 2.0                 | 10                  | -30                       | +15    | +15     | 1051                                    |
| 56  | C         | 735D566X0075C2 | 2.4                        | 60                           | 2.0                 | 8.0                 | -28                       | +15    | +15     | 1396                                    |
| 110   | D         | 735D117X0075D2 | 1.3                        | 29                           | 3.0                 | 20                  | -35                       | +20    | +20     | 1990                                    |
| 250   | D         | 735D257X0075D2 | 1.5                        | 33                           | 5.0                 | 22                  | -68                       | +25    | +25     | 1850                                    |
| <b>100VDC at + 85°C, 70VDC at + 125°C, 50VDC at + 200°C</b> |           |                |                            |                              |                     |                     |                           |        |         |   |
| 30  | B         | 735D306X0100B2 | 3.7                        | 99                           | 2.0                 | 12                  | -16                       | +8     | +8      | 1065                                    |
| 30  | C         | 735D306X0100C2 | 3.3                        | 80                           | 2.0                 | 8.0                 | -16                       | +8     | +8      | 1200                                    |
| 43  | C         | 735D436X0100C2 | 2.4                        | 70                           | 2.0                 | 8.0                 | -20                       | +8     | +8      | 1389                                    |
| 86  | D         | 735D866X0100D2 | 1.5                        | 30                           | 3.0                 | 20                  | -24                       | +15    | +15     | 1859                                    |
| <b>125VDC at + 85°C, 85VDC at + 125°C, 62VDC at + 200°C</b> |           |                |                            |                              |                     |                     |                           |        |         |   |
| 3.6   | A         | 735D365X0125A2 | 11.1                       | 600                          | 1.0                 | 2.0                 | -16                       | +8     | +8      | 495                                     |
| 14  | B         | 735D146X0125B2 | 5.0                        | 167                          | 1.0                 | 4.0                 | -16                       | +8     | +8      | 1050                                    |
| 25  | C         | 735D256X0125C2 | 2.6                        | 93                           | 2.0                 | 8.0                 | -16                       | +8     | +8      | 1335                                    |
| 56  | D         | 735D556X0125D2 | 1.5                        | 47                           | 3.0                 | 20                  | -25                       | +15    | +15     | 1859                                    |



# 735D, 735DE, CT79 (CECC 30202)

Wet Tantalum Capacitors with Glass to  
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Vishay Tansitor

| <b>CT79 STANDARD RATINGS</b>                                |           |                 |                            |                              |                     |         |                           |        |         |   |
|---|-----------|-----------------|----------------------------|------------------------------|---------------------|---------|---------------------------|--------|---------|---|
| μF  | CASE CODE | PART NUMBER     | MAX DF<br>at + 25°C<br>(%) | MAX IMP.<br>at - 55°C<br>(Ω) | MAX DCL<br>IN μA at |         | MAX CAP. CHANGE<br>(%) at |        |         | MAX RMS<br>RIPPLE CURRENT<br>40KHz (mA) |
|   |           |                 |                            |                              | + 25°C              | + 125°C | - 55°C                    | + 85°C | + 125°C |   |
| <b>6.3VDC at + 85°C, 4VDC at + 125°C, 3VDC at + 200°C</b>   |           |                 |                            |                              |                     |         |                           |        |         |   |
| 68  | A         | CT79686X06R3A2  | 15                         | 72                           | 1                   | 12      | -40                       | +14    | +16     | 960                                     |
| 270   | B         | CT79277X06R3B2  | 41                         | 30                           | 1                   | 7       | -44                       | +17.5  | +20     | 1375                                    |
| 560   | C         | CT79567X06R3C2  | 55                         | 30                           | 2                   | 16      | -64                       | +17.5  | +20     | 1900                                    |
| 1200  | D         | CT79128X06R3D2  | 94                         | 24                           | 4                   | 16      | -80                       | +25    | +25     | 2265                                    |
| <b>10VDC at + 85°C, 6.3VDC at + 125°C, 5VDC at + 200°C</b>  |           |                 |                            |                              |                     |         |                           |        |         |   |
| 47  | A         | CT79476X00I0A2  | 14                         | 120                          | 1                   | 2       | -36                       | +14    | +16     | 855                                     |
| 180   | B         | CT79187X00I0B2  | 29                         | 48                           | 1                   | 7       | -36                       | +14    | +16     | 1300                                    |
| 390   | C         | CT79397X00I0C2  | 44                         | 30                           | 2                   | 16      | -64                       | +17.5  | +20     | 1800                                    |
| 820   | D         | CT79827X00I0D2  | 65                         | 28                           | 4                   | 16      | -80                       | +25    | +25     | 2360                                    |
| <b>16VDC at + 85°C, 10VDC at + 125°C, 8VDC at + 200°C</b>   |           |                 |                            |                              |                     |         |                           |        |         |   |
| 33  | A         | CT79336X00I16A2 | 10                         | 108                          | 1                   | 2       | -28                       | +14    | +16     | 820                                     |
| 120   | B         | CT79127X00I16B2 | 24                         | 60                           | 1                   | 9       | -28                       | +17.5  | +20     | 1230                                    |
| 270   | C         | CT79277X00I16C2 | 45                         | 36                           | 2                   | 16      | -56                       | +17.5  | +20     | 1500                                    |
| 560   | D         | CT79567X00I16D2 | 44                         | 28                           | 6                   | 24      | -80                       | +25    | +25     | 2300                                    |
| <b>25VDC at + 85°C, 16VDC at + 125°C, 12VDC at + 200°C</b>  |           |                 |                            |                              |                     |         |                           |        |         |   |
| 22  | A         | CT79226X00I25A2 | 7                          | 168                          | 1                   | 2       | -20                       | +10.5  | +12     | 800                                     |
| 100   | B         | CT79107X00I25B2 | 21                         | 60                           | 1                   | 10      | -28                       | +13    | +15     | 1215                                    |
| 180   | C         | CT79187X00I25C2 | 29                         | 39                           | 2                   | 18      | -48                       | +13    | +15     | 1460                                    |
| 390   | D         | CT79397X00I25D2 | 40                         | 29                           | 7                   | 28      | -70                       | +25    | +25     | 1970                                    |
| <b>40VDC at + 85°C, 25VDC at + 125°C, 20VDC at + 200°C</b>  |           |                 |                            |                              |                     |         |                           |        |         |   |
| 12  | A         | CT79126X00I40A2 | 6                          | 234                          | 1                   | 2       | -24                       | +8     | +10     | 660                                     |
| 56  | B         | CT79566X00I40B2 | 14                         | 78                           | 1                   | 9       | -28                       | +13    | +15     | 1100                                    |
| 100   | C         | CT79107X00I40C2 | 18                         | 48                           | 2                   | 17      | -40                       | +13    | +15     | 1400                                    |
| 220   | D         | CT79227X00I40D2 | 27                         | 31                           | 8                   | 32      | -55                       | +25    | +25     | 1900                                    |
| <b>63VDC at + 85°C, 40VDC at + 125°C, 31VDC at + 200°C</b>  |           |                 |                            |                              |                     |         |                           |        |         |   |
| 8.2   | A         | CT79825X00I63A2 | 4.5                        | 330                          | 1                   | 2       | -24                       | +8     | +9      | 625                                     |
| 39  | B         | CT79396X00I63B2 | 12                         | 108                          | 1                   | 9       | -28                       | +10.5  | +12     | 1015                                    |
| 68  | C         | CT79686X00I63C2 | 13                         | 60                           | 2                   | 16      | -32                       | +10.5  | +12     | 1365                                    |
| 150   | D         | CT79157X00I63D2 | 18                         | 34                           | 8                   | 32      | -40                       | +20    | +20     | 1850                                    |
| <b>80VDC at + 85°C, 50VDC at + 125°C, 40VDC at + 200°C</b>  |           |                 |                            |                              |                     |         |                           |        |         |   |
| 6.8   | A         | CT79685X00I80A2 | 5                          | 360                          | 1                   | 2       | -20                       | +8     | +9      | 610                                     |
| 33  | B         | CT79336X00I80B2 | 10                         | 108                          | 1                   | 10      | -24                       | +10.5  | +15     | 1000                                    |
| 56  | C         | CT79566X00I80C2 | 11                         | 72                           | 2                   | 17      | -28                       | +10.5  | +15     | 1350                                    |
| 100   | D         | CT79107X00I80D2 | 12                         | 36                           | 9                   | 36      | -35                       | +20    | +20     | 1825                                    |
| <b>100VDC at + 85°C, 63VDC at + 125°C, 50VDC at + 200°C</b> |           |                 |                            |                              |                     |         |                           |        |         |   |
| 4.7   | A         | CT79475X01I00A2 | 3                          | 600                          | 1                   | 2       | -16                       | +7     | +8      | 565                                     |
| 22  | B         | CT79226X01I00B2 | 8                          | 132                          | 1                   | 9       | -16                       | +7     | +8      | 935                                     |
| 47  | C         | CT79476X01I00C2 | 8                          | 84                           | 2                   | 17      | 20                        | +7     | +8      | 1335                                    |
| 82  | D         | CT79826X01I00D2 | 10                         | 40                           | 9                   | 36      | -25                       | +15    | +15     | 1800                                    |
| <b>125VDC at + 85°C, 80VDC at + 125°C, 62VDC at + 200°C</b> |           |                 |                            |                              |                     |         |                           |        |         |   |
| 3.9   | A         | CT79395X01I25A2 | 3.5                        | 720                          | 1                   | 2       | -16                       | +7     | +8      | 495                                     |
| 15  | B         | CT79156X01I25B2 | 6                          | 200                          | 1                   | 7       | -16                       | +7     | +8      | 860                                     |
| 27  | C         | CT79276X01I25C2 | 6                          | 106                          | 2                   | 13      | -16                       | +7     | +8      | 1200                                    |
| 56  | D         | CT79566X01I25D2 | 7                          | 58                           | 10                  | 40      | -25                       | +15    | +15     | 1800                                    |



# 735D, 735DE, CT79 (CECC 30202)



Vishay Tansitor

Wet Tantalum Capacitors with Glass to  
Tantalum Hermetic Seal CECC 30202 Approved

| <b>CT79 EXTENDED RATINGS</b>                                |           |                |                      |                        |                  |                  |                        |        |         |                                   |
|---|-----------|----------------|----------------------|------------------------|------------------|------------------|------------------------|--------|---------|-----------------------------------|
| μF  | CASE CODE | PART NUMBER    | MAX DF at + 25°C (%) | MAX IMP. at - 55°C (Ω) | MAX DCL IN μA at |                  | MAX CAP. CHANGE (%) at |        |         | MAX RMS RIPPLE CURRENT 40KHz (mA) |
|   |           |                |                      |                        | + 25°C           | + 85°C & + 125°C | - 55°C                 | + 85°C | + 125°C |                                   |
| <b>6.3VDC at + 85°C, 4VDC at + 125°C, 3VDC at + 200°C</b>   |           |                |                      |                        |                  |                  |                        |        |         |                                   |
| 150   | A         | CT79157X06R3A2 | 34                   | 80                     | 2.0              | 9.0              | -42                    | 16     | 16      | 960                               |
| 560   | B         | CT79567X06R3B2 | 106                  | 48                     | 2.0              | 10               | -68                    | 20     | 20      | 1550                              |
| 1500  | C         | CT79158X06R3C2 | 172                  | 36                     | 5.0              | 20               | -90                    | 25     | 25      | 1930                              |
| 2200  | D         | CT79228X06R3D2 | 170                  | 22                     | 6.0              | 24               | -90                    | 25     | 25      | 2330                              |
| <b>10VDC at + 85°C, 6.3VDC at + 125°C, 5VDC at + 200°C</b>  |           |                |                      |                        |                  |                  |                        |        |         |                                   |
| 100   | A         | CT79107X0010A2 | 30                   | 82                     | 2.0              | 6.0              | -40                    | 16     | 16      | 930                               |
| 390   | B         | CT79397X0010B2 | 74                   | 54                     | 2.0              | 10               | -60                    | 19     | 20      | 1470                              |
| 1200  | C         | CT79128X0010C2 | 137                  | 36                     | 5.0              | 20               | -80                    | 25     | 25      | 1850                              |
| 1800  | D         | CT79188X0010D2 | 138                  | 24                     | 7.0              | 25               | -88                    | 30     | 30      | 2300                              |
| <b>16VDC at + 85°C, 10VDC at + 125°C, 8VDC at + 200°C</b>   |           |                |                      |                        |                  |                  |                        |        |         |                                   |
| 56  | A         | CT79566X0016A2 | 22                   | 100                    | 1.5              | 3.0              | -28                    | 16     | 16      | 890                               |
| 270   | B         | CT79277X0016B2 | 55                   | 60                     | 2.0              | 12               | -45                    | 18     | 28      | 1430                              |
| 820   | C         | CT79827X0016C2 | 95                   | 42                     | 6.0              | 24               | -80                    | 25     | 25      | 1800                              |
| 1200  | D         | CT79128X0016D2 | 103                  | 25                     | 8.0              | 32               | -84                    | 25     | 30      | 2300                              |
| <b>25VDC at + 85°C, 16VDC at + 125°C, 12VDC at + 200°C</b>  |           |                |                      |                        |                  |                  |                        |        |         |                                   |
| 39  | A         | CT79396X0025A2 | 16                   | 120                    | 2.0              | 9.0              | -28                    | 16     | 16      | 820                               |
| 180   | B         | CT79187X0025B2 | 36                   | 60                     | 2.0              | 10               | -48                    | 14     | 15      | 1400                              |
| 560   | C         | CT79567X0025C2 | 60                   | 48                     | 7.0              | 28               | -80                    | 25     | 25      | 1750                              |
| 820   | D         | CT79827X0025D2 | 82                   | 26                     | 8.0              | 32               | -80                    | 25     | 25      | 2100                              |
| <b>40VDC at + 85°C, 25VDC at + 125°C, 20VDC at + 200°C</b>  |           |                |                      |                        |                  |                  |                        |        |         |                                   |
| 22  | A         | CT79226X0040A2 | 11                   | 190                    | 1.5              | 4.0              | -24                    | 12     | 12      | 745                               |
| 120   | B         | CT79127X0040B2 | 30                   | 62                     | 2.0              | 12               | -32                    | 15     | 15      | 1315                              |
| 330   | C         | CT79337X0040C2 | 43                   | 52                     | 8.0              | 32               | -65                    | 25     | 25      | 1640                              |
| 470   | D         | CT79477X0040D2 | 45                   | 30                     | 9.0              | 35               | -80                    | 25     | 25      | 2040                              |
| <b>63VDC at + 85°C, 40VDC at + 125°C, 31VDC at + 200°C</b>  |           |                |                      |                        |                  |                  |                        |        |         |                                   |
| 15  | A         | CT79156X0063A2 | 8.0                  | 220                    | 2.0              | 9.0              | -22                    | 9.0    | 9.0     | 650                               |
| 82  | B         | CT79826X0063B2 | 22                   | 70                     | 2.0              | 12               | -36                    | 15     | 15      | 1220                              |
| 220   | C         | CT79227X0063C2 | 37                   | 55                     | 8.0              | 32               | -50                    | 25     | 25      | 1520                              |
| 330   | D         | CT79337X0063D2 | 32                   | 31                     | 10.0             | 40               | -72                    | 25     | 25      | 1970                              |
| <b>80VDC at + 85°C, 50VDC at + 125°C, 40VDC at + 200°C</b>  |           |                |                      |                        |                  |                  |                        |        |         |                                   |
| 8.2   | A         | CT79825X0080A2 | 6.0                  | 280                    | 1.5              | 3.0              | -22                    | 9.0    | 9.0     | 610                               |
| 68  | B         | CT79686X0080B2 | 21                   | 86                     | 2.0              | 12               | -36                    | 15     | 15      | 1200                              |
| 150   | C         | CT79157X0080C2 | 25                   | 60                     | 9.0              | 36               | -40                    | 20     | 20      | 1490                              |
| 220   | D         | CT79227X0080D2 | 37                   | 32                     | 10               | 40               | -60                    | 22     | 22      | 1900                              |
| <b>100VDC at + 85°C, 63VDC at + 125°C, 50VDC at + 200°C</b> |           |                |                      |                        |                  |                  |                        |        |         |                                   |
| 5.6   | A         | CT79565X0100A2 | 6.0                  | 475                    | 2.0              | 5.0              | -17                    | 8.0    | 8.0     | 565                               |
| 39  | B         | CT79396X0100B2 | 10                   | 92                     | 2.0              | 12               | -24                    | 12     | 12      | 1300                              |
| 68  | C         | CT79686X0100C2 | 15                   | 60                     | 10               | 40               | -30                    | 15     | 15      | 1600                              |
| 100   | D         | CT79107X0100D2 | 11                   | 36                     | 3.0              | 24               | -35                    | 20     | 20      | 1900                              |
| <b>125VDC at + 85°C, 80VDC at + 125°C, 62VDC at + 200°C</b> |           |                |                      |                        |                  |                  |                        |        |         |                                   |
| 18  | B         | CT79186X0125B2 | 8.0                  | 133                    | 2.0              | 10               | -16                    | 8.0    | 8.0     | 1065                              |
| 47  | C         | CT79476X0125C2 | 9.0                  | 70                     | 2.0              | 10               | -23                    | 10     | 10      | 1500                              |
| 82  | D         | CT79826X0125D2 | 10.0                 | 39                     | 3.0              | 24               | -24                    | 18     | 18      | 1900                              |

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