

# Type TDC Solid Tantalum Capacitors

## Dipped, Radial Leaded, Solid Tantalum Capacitors



As a low cost alternative to molded solid tantalum capacitors, the Type TDC, constructed in a tough, radial dipped flame retardant plastic case, assures the user that it is a top performer with such attributes as low DCL, low ESR, low impedance and a great value with low in-place cost. The Type TDC is high shock and vibration resistant and is available in bulk or on radial tape and reel.

### Highlights

- ◆ Tough plastic case
- ◆ Low DCL
- ◆ Low ESR and impedance
- ◆ Low cost
- ◆ Temperature stable
- ◆ UL94VO flammability rating
- ◆ Resistant to shock and vibration

### Specifications

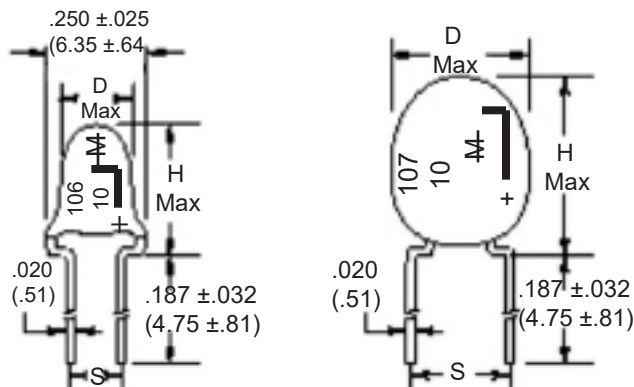
| Capacitance Range                | 0.10 $\mu$ F to 330 $\mu$ F                                                                                                                                                                                                   |           |                   |   |       |   |       |   |       |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------|---|-------|---|-------|---|-------|
| Capacitance Tolerance            | $\pm 10\%$ , $\pm 20\%$                                                                                                                                                                                                       |           |                   |   |       |   |       |   |       |
| Rated Voltage                    | 6 WVdc to 50 WVdc at 85 °C                                                                                                                                                                                                    |           |                   |   |       |   |       |   |       |
| Operating Temperature Range      | -55 °C to +125 °C (with proper derating)                                                                                                                                                                                      |           |                   |   |       |   |       |   |       |
| DC Leakage                       | +25 °C - See ratings limit<br>+85 °C - 10 x ratings limit<br>+125 °C - 12.5 x ratings limit                                                                                                                                   |           |                   |   |       |   |       |   |       |
| Capacitance Change Maximum       | -10% @ -55 °C<br>+10% @ +85 °C<br>+12% @ +125 °C                                                                                                                                                                              |           |                   |   |       |   |       |   |       |
| Reverse Voltage (Non-continuous) | 15% of rated voltage @ 25 °C<br>5% of rated voltage @ 85 °C<br>1% of rated voltage @ 125 °C                                                                                                                                   |           |                   |   |       |   |       |   |       |
| Reel Packaging                   | <table border="1"> <thead> <tr> <th>Case Code</th><th>Quantity per Reel</th></tr> </thead> <tbody> <tr> <td>E</td><td>1,000</td></tr> <tr> <td>F</td><td>1,000</td></tr> <tr> <td>G</td><td>1,000</td></tr> </tbody> </table> | Case Code | Quantity per Reel | E | 1,000 | F | 1,000 | G | 1,000 |
| Case Code                        | Quantity per Reel                                                                                                                                                                                                             |           |                   |   |       |   |       |   |       |
| E                                | 1,000                                                                                                                                                                                                                         |           |                   |   |       |   |       |   |       |
| F                                | 1,000                                                                                                                                                                                                                         |           |                   |   |       |   |       |   |       |
| G                                | 1,000                                                                                                                                                                                                                         |           |                   |   |       |   |       |   |       |
| RoHS Compliant                   |                                                                                                                                                                                                                               |           |                   |   |       |   |       |   |       |

### Part Numbering System

| TDC    | 107                | K              | 016          | W            | S               | G         | -F             |
|--------|--------------------|----------------|--------------|--------------|-----------------|-----------|----------------|
| Series | Capacitance        | Tolerance      | Voltage      | Lead Spacing | Lead Length     | Case Code | RoHS Compliant |
| TDC    | 394 = 0.39 $\mu$ F | J = $\pm 5\%$  | 006 = 6 Vdc  | N = .125     | S = .187        | E         | -F = Compliant |
|        | 105 = 1.0 $\mu$ F  | K = $\pm 10\%$ | 010 = 10 Vdc | W = .250     | T = Tape & Reel | F         |                |
|        | 225 = 2.2 $\mu$ F  | M = $\pm 20\%$ | 016 = 16 Vdc |              |                 | G         |                |
|        | 186 = 18 $\mu$ F   |                | 020 = 20 Vdc |              |                 |           |                |
|        | 107 = 100 $\mu$ F  |                | 025 = 25 Vdc |              |                 |           |                |
|        |                    |                | 035 = 35 Vdc |              |                 |           |                |
|        |                    |                | 050 = 50 Vdc |              |                 |           |                |

# Type TDC Solid Tantalum Capacitors

## Capacitor Outline Drawing



| Dimensions - Inches (Millimeters) |             |              |                        |      |
|-----------------------------------|-------------|--------------|------------------------|------|
| Case Code                         | D (Max.)    | H (Max.)     | Leads                  |      |
|                                   |             |              | S                      | Code |
| E                                 | .175 (4.45) | .350 (8.89)  | .125 (3.17) (Standard) | N    |
|                                   |             |              | .250 (6.35) (Special)  | W    |
| F                                 | .250 (6.35) | .500 (12.7)  | .125 (3.17) (Standard) | N    |
|                                   |             |              | .250 (6.35) (Special)  | W    |
| G                                 | .350 (8.89) | .650 (16.51) | .250 (6.35) (Special)  | W    |

E and F Case Codes:

Lead Spacing = .125 ± .025  
(3.17 ± .64)

G Case Code:

Lead Spacing = .250 ± .025  
(6.34 ± .64)

## Ratings

| Cap<br>( $\mu$ F)                                             | Catalog<br>Part Number | Case<br>Code | Lead<br>Spacing<br>(S) | Max.<br>DCL<br>@ +25 °C<br>( $\mu$ A) | Max. DF<br>@ +25 °C<br>120 Hz<br>(%) |
|---------------------------------------------------------------|------------------------|--------------|------------------------|---------------------------------------|--------------------------------------|
| 6 WVdc; 8 Vdc Surge @ 85 °C<br>4 WVdc; 5 Vdc Surge @ 125 °C   |                        |              |                        |                                       |                                      |
| 3.3                                                           | TDC335*006NSE-F        | E            | 0.125                  | 0.5                                   | 5                                    |
| 3.9                                                           | TDC395*006NSE-F        | E            | 0.125                  | 0.5                                   | 5                                    |
| 4.7                                                           | TDC475*006NSE-F        | E            | 0.125                  | 0.5                                   | 5                                    |
| 5.6                                                           | TDC565*006NSE-F        | E            | 0.125                  | 0.5                                   | 5                                    |
| 6.8                                                           | TDC685*006NSE-F        | E            | 0.125                  | 0.5                                   | 5                                    |
| 8.2                                                           | TDC825*006NSE-F        | E            | 0.125                  | 0.5                                   | 6                                    |
| 10                                                            | TDC106*006NSE-F        | E            | 0.125                  | 0.5                                   | 6                                    |
| 12                                                            | TDC126*006NSE-F        | E            | 0.125                  | 0.6                                   | 6                                    |
| 15                                                            | TDC156*006NSF-F        | F            | 0.125                  | 0.7                                   | 6                                    |
| 18                                                            | TDC186*006NSF-F        | F            | 0.125                  | 0.9                                   | 6                                    |
| 22                                                            | TDC226*006NSF-F        | F            | 0.125                  | 1.1                                   | 6                                    |
| 27                                                            | TDC276*006NSF-F        | F            | 0.125                  | 1.3                                   | 6                                    |
| 33                                                            | TDC336*006NSF-F        | F            | 0.125                  | 1.6                                   | 6                                    |
| 39                                                            | TDC396*006NSF-F        | F            | 0.125                  | 1.9                                   | 6                                    |
| 47                                                            | TDC476*006NSF-F        | F            | 0.125                  | 2.3                                   | 6                                    |
| 56                                                            | TDC566*006NSF-F        | F            | 0.125                  | 2.7                                   | 6                                    |
| 68                                                            | TDC686*006NSF-F        | F            | 0.125                  | 3.3                                   | 6                                    |
| 82                                                            | TDC826*006NSF-F        | F            | 0.125                  | 3.9                                   | 8                                    |
| 100                                                           | TDC107*006NSF-F        | F            | 0.125                  | 4.8                                   | 8                                    |
| 120                                                           | TDC127*006WSG-F        | G            | 0.25                   | 5.8                                   | 8                                    |
| 150                                                           | TDC157*006WSG-F        | G            | 0.25                   | 7.2                                   | 8                                    |
| 180                                                           | TDC187*006WSG-F        | G            | 0.25                   | 8.6                                   | 8                                    |
| 220                                                           | TDC227*006WSG-F        | G            | 0.25                   | 10                                    | 8                                    |
| 270                                                           | TDC277*006WSG-F        | G            | 0.25                   | 10                                    | 8                                    |
| 330                                                           | TDC337*006WSG-F        | G            | 0.25                   | 10                                    | 8                                    |
| 10 WVdc; 13 Vdc Surge @ 85 °C<br>7 WVdc; 9 Vdc Surge @ 125 °C |                        |              |                        |                                       |                                      |
| 2.2                                                           | TDC225*010NSE-F        | E            | 0.125                  | 0.5                                   | 5                                    |
| 2.7                                                           | TDC275*010NSE-F        | E            | 0.125                  | 0.5                                   | 5                                    |
| 3.3                                                           | TDC335*010NSE-F        | E            | 0.125                  | 0.5                                   | 5                                    |
| 3.9                                                           | TDC395*010NSE-F        | E            | 0.125                  | 0.5                                   | 5                                    |
| 4.7                                                           | TDC475*010NSE-F        | E            | 0.125                  | 0.5                                   | 5                                    |
| 5.6                                                           | TDC565*010NSE-F        | E            | 0.125                  | 0.5                                   | 5                                    |
| 6.8                                                           | TDC685*010NSE-F        | E            | 0.125                  | 0.5                                   | 5                                    |
| 8.2                                                           | TDC825*010NSE-F        | E            | 0.125                  | 0.7                                   | 6                                    |
| 10                                                            | TDC106*010NSF-F        | F            | 0.125                  | 0.8                                   | 6                                    |
| 12                                                            | TDC126*010NSF-F        | F            | 0.125                  | 1.0                                   | 6                                    |
| 15                                                            | TDC156*010NSF-F        | F            | 0.125                  | 1.2                                   | 6                                    |
| 18                                                            | TDC186*010NSF-F        | F            | 0.125                  | 1.4                                   | 6                                    |
| 22                                                            | TDC226*010NSF-F        | F            | 0.125                  | 1.8                                   | 6                                    |
| 27                                                            | TDC276*010NSF-F        | F            | 0.125                  | 2.2                                   | 6                                    |
| 33                                                            | TDC336*010NSF-F        | F            | 0.125                  | 2.6                                   | 6                                    |
| 39                                                            | TDC396*010NSF-F        | F            | 0.125                  | 3.1                                   | 6                                    |
| 47                                                            | TDC476*010NSF-F        | F            | 0.125                  | 3.8                                   | 6                                    |
| 56                                                            | TDC566*010NSF-F        | F            | 0.125                  | 4.5                                   | 6                                    |
| 68                                                            | TDC686*010NSF-F        | F            | 0.125                  | 5.4                                   | 6                                    |
| 82                                                            | TDC826*010WSG-F        | G            | 0.25                   | 6.6                                   | 8                                    |
| 100                                                           | TDC107*010WSG-F        | G            | 0.25                   | 8.0                                   | 8                                    |
| 120                                                           | TDC127*010WSG-F        | G            | 0.25                   | 9.6                                   | 8                                    |
| 150                                                           | TDC157*010WSG-F        | G            | 0.25                   | 10.0                                  | 8                                    |
| 180                                                           | TDC187*010WSG-F        | G            | 0.25                   | 10.0                                  | 8                                    |
| 220                                                           | TDC227*010WSG-F        | G            | 0.25                   | 10.0                                  | 8                                    |

\* Indicates capacitance tolerance: K =  $\pm 10\%$ , M =  $\pm 20\%$ , (J =  $\pm 5\%$ , Special Order)

CDE reserves the right to substitute a tighter tolerance, higher voltage capacitor within the same case size.

CDE Cornell Dubilier • 1605 E. Rodney French Blvd. • New Bedford, MA 02744 • Phone: (508)996-8561 • Fax: (508)996-3830 • www.cde.com

# Type TDC Solid Tantalum Capacitors

## Ratings

| Cap<br>( $\mu$ F)                                               | Catalog<br>Part Number | Case<br>Code | Lead<br>Spacing<br>(S) | Max.<br>DCL<br>@ +25 °C<br>( $\mu$ A) | Max. DF<br>@ +25 °C<br>120 Hz<br>(%) | Cap<br>( $\mu$ F)                                               | Catalog<br>Part Number | Case<br>Code | Lead<br>Spacing<br>(S) | Max.<br>DCL<br>@ +25 °C<br>( $\mu$ A) | Max. DF<br>@ +25 °C<br>120 Hz<br>(%) |
|-----------------------------------------------------------------|------------------------|--------------|------------------------|---------------------------------------|--------------------------------------|-----------------------------------------------------------------|------------------------|--------------|------------------------|---------------------------------------|--------------------------------------|
| 16 WVdc; 20 Vdc Surge @ 85 °C<br>10 WVdc; 12 Vdc Surge @ 125 °C |                        |              |                        |                                       |                                      | 20 WVdc; 26 Vdc Surge @ 85 °C<br>13 WVdc; 16 Vdc Surge @ 125 °C |                        |              |                        |                                       |                                      |
| 1.5                                                             | TDC155*016NSE-F        | E            | 0.125                  | 0.5                                   | 5                                    | 8.2                                                             | TDC825*020NSF-F        | F            | 0.125                  | 1.3                                   | 6                                    |
| 1.8                                                             | TDC185*016NSE-F        | E            | 0.125                  | 0.5                                   | 5                                    | 10                                                              | TDC106*020NSF-F        | F            | 0.125                  | 1.6                                   | 6                                    |
| 2.2                                                             | TDC225*016NSE-F        | E            | 0.125                  | 0.5                                   | 5                                    | 12                                                              | TDC126*020NSF-F        | F            | 0.125                  | 1.9                                   | 6                                    |
| 2.7                                                             | TDC275*016NSE-F        | E            | 0.125                  | 0.5                                   | 5                                    | 15                                                              | TDC156*020NSF-F        | F            | 0.125                  | 2.4                                   | 6                                    |
| 3.3                                                             | TDC335*016NSE-F        | E            | 0.125                  | 0.5                                   | 5                                    | 18                                                              | TDC186*020NSF-F        | F            | 0.125                  | 2.9                                   | 6                                    |
| 3.9                                                             | TDC395*016NSE-F        | E            | 0.125                  | 0.5                                   | 5                                    | 22                                                              | TDC226*020NSF-F        | F            | 0.125                  | 3.5                                   | 6                                    |
| 4.7                                                             | TDC475*016NSE-F        | E            | 0.125                  | 0.6                                   | 5                                    | 33                                                              | TDC336*020WSG-F        | G            | 0.25                   | 5.3                                   | 6                                    |
| 5.6                                                             | TDC565*016NSE-F        | E            | 0.125                  | 0.7                                   | 5                                    | 39                                                              | TDC396*020WSG-F        | G            | 0.25                   | 6.2                                   | 6                                    |
| 6.8                                                             | TDC685*016NSE-F        | E            | 0.125                  | 0.9                                   | 5                                    | 47                                                              | TDC476*020WSG-F        | G            | 0.25                   | 7.5                                   | 6                                    |
| 8.2                                                             | TDC825*016NSE-F        | E            | 0.125                  | 1.0                                   | 6                                    | 56                                                              | TDC566*020WSG-F        | G            | 0.25                   | 9.0                                   | 6                                    |
| 10                                                              | TDC106*016NSF-F        | F            | 0.125                  | 1.3                                   | 6                                    | 68                                                              | TDC686*020WSG-F        | G            | 0.25                   | 10.0                                  | 6                                    |
| 12                                                              | TDC126*016NSF-F        | F            | 0.125                  | 1.5                                   | 6                                    | 82                                                              | TDC826*020WSG-F        | G            | 0.25                   | 10.0                                  | 8                                    |
| 15                                                              | TDC156*016NSF-F        | F            | 0.125                  | 1.8                                   | 6                                    | 100                                                             | TDC107*020WSG-F        | G            | 0.25                   | 10.0                                  | 8                                    |
| 18                                                              | TDC186*016NSF-F        | F            | 0.125                  | 2.2                                   | 6                                    | 25 WVdc; 32 Vdc Surge @ 85 °C<br>17 WVdc; 22 Vdc Surge @ 125 °C |                        |              |                        |                                       |                                      |
| 22                                                              | TDC226*016NSF-F        | F            | 0.125                  | 2.6                                   | 6                                    | 1.0                                                             | TDC105*025NSE-F        | E            | 0.125                  | 0.50                                  | 3                                    |
| 27                                                              | TDC276*016NSF-F        | F            | 0.125                  | 3.2                                   | 6                                    | 1.2                                                             | TDC125*025NSE-F        | E            | 0.125                  | 0.50                                  | 5                                    |
| 33                                                              | TDC336*016NSF-F        | F            | 0.125                  | 4.0                                   | 6                                    | 1.5                                                             | TDC155*025NSE-F        | E            | 0.125                  | 0.50                                  | 5                                    |
| 39                                                              | TDC396*016WSG-F        | G            | 0.25                   | 4.7                                   | 6                                    | 1.8                                                             | TDC185*025NSE-F        | E            | 0.125                  | 0.50                                  | 5                                    |
| 47                                                              | TDC476*016WSG-F        | G            | 0.25                   | 5.6                                   | 6                                    | 2.2                                                             | TDC225*025NSE-F        | E            | 0.125                  | 0.50                                  | 5                                    |
| 56                                                              | TDC566*016WSG-F        | G            | 0.25                   | 6.8                                   | 6                                    | 2.7                                                             | TDC275*025NSE-F        | E            | 0.125                  | 0.50                                  | 5                                    |
| 68                                                              | TDC686*016WSG-F        | G            | 0.25                   | 8.2                                   | 6                                    | 3.3                                                             | TDC335*025NSE-F        | E            | 0.125                  | 0.70                                  | 5                                    |
| 82                                                              | TDC826*016WSG-F        | G            | 0.25                   | 9.8                                   | 8                                    | 3.9                                                             | TDC395*025NSE-F        | E            | 0.125                  | 0.80                                  | 5                                    |
| 100                                                             | TDC107*016WSG-F        | G            | 0.25                   | 10.0                                  | 8                                    | 4.7                                                             | TDC475*025NSF-F        | F            | 0.125                  | 0.90                                  | 5                                    |
| 120                                                             | TDC127*016WSG-F        | G            | 0.25                   | 10.0                                  | 8                                    | 5.6                                                             | TDC565*025NSF-F        | F            | 0.125                  | 1.10                                  | 5                                    |
| 150                                                             | TDC157*016WSG-F        | G            | 0.25                   | 10.0                                  | 8                                    | 6.8                                                             | TDC685*025NSF-F        | F            | 0.125                  | 1.40                                  | 5                                    |
| 20 WVdc; 26 Vdc Surge @ 85 °C<br>13 WVdc; 16 Vdc Surge @ 125 °C |                        |              |                        |                                       |                                      | 8.2                                                             | TDC825*025NSF-F        | F            | 0.125                  | 1.60                                  | 6                                    |
| 1.0                                                             | TDC105*020NSE-F        | E            | 0.125                  | 0.5                                   | 3                                    | 10                                                              | TDC106*025NSF-F        | F            | 0.125                  | 2.0                                   | 6                                    |
| 1.2                                                             | TDC125*020NSE-F        | E            | 0.125                  | 0.5                                   | 5                                    | 12                                                              | TDC126*025NSF-F        | F            | 0.125                  | 2.4                                   | 6                                    |
| 1.5                                                             | TDC155*020NSE-F        | E            | 0.125                  | 0.5                                   | 5                                    | 15                                                              | TDC156*025NSF-F        | F            | 0.125                  | 3.0                                   | 6                                    |
| 1.8                                                             | TDC185*020NSE-F        | E            | 0.125                  | 0.5                                   | 5                                    | 18                                                              | TDC186*025NSF-F        | F            | 0.125                  | 3.6                                   | 6                                    |
| 2.2                                                             | TDC225*020NSE-F        | E            | 0.125                  | 0.5                                   | 5                                    | 22                                                              | TDC226*025NSF-F        | F            | 0.125                  | 4.4                                   | 6                                    |
| 2.7                                                             | TDC275*020NSE-F        | E            | 0.125                  | 0.5                                   | 5                                    | 27                                                              | TDC276*025WSG-F        | G            | 0.250                  | 5.4                                   | 6                                    |
| 3.3                                                             | TDC335*020NSE-F        | E            | 0.125                  | 0.5                                   | 5                                    | 33                                                              | TDC336*025WSG-F        | G            | 0.250                  | 6.6                                   | 6                                    |
| 3.9                                                             | TDC395*020NSE-F        | E            | 0.125                  | 0.6                                   | 5                                    | 39                                                              | TDC396*025WSG-F        | G            | 0.250                  | 7.8                                   | 6                                    |
| 4.7                                                             | TDC475*020NSE-F        | E            | 0.125                  | 0.8                                   | 5                                    | 47                                                              | TDC476*025WSG-F        | G            | 0.250                  | 9.4                                   | 6                                    |
| 5.6                                                             | TDC565*020NSF-F        | F            | 0.125                  | 0.9                                   | 5                                    | 56                                                              | TDC566*025WSG-F        | G            | 0.250                  | 10.0                                  | 6                                    |
| 6.8                                                             | TDC685*020NSF-F        | F            | 0.125                  | 1.1                                   | 5                                    | 68                                                              | TDC686*025WSG-F        | G            | 0.250                  | 10.0                                  | 6                                    |

\* Indicates capacitance tolerance: K =  $\pm 10\%$ , M =  $\pm 20\%$ , (J =  $\pm 5\%$ , Special Order)

CDE reserves the right to substitute a tighter tolerance, higher voltage capacitor within the same case size.

CDE Cornell Dubilier • 1605 E. Rodney French Blvd. • New Bedford, MA 02744 • Phone: (508)996-8561 • Fax: (508)996-3830 • [www.cde.com](http://www.cde.com)

# Type TDC Solid Tantalum Capacitors

## Ratings

| Cap<br>( $\mu$ F)                                               | Catalog<br>Part Number | Case<br>Code | Lead<br>Spacing<br>(S) | Max.<br>DCL<br>@ +25 °C<br>( $\mu$ A) | Max. DF<br>@ +25 °C<br>120 Hz<br>(%) | Cap<br>( $\mu$ F)                                               | Catalog<br>Part Number | Case<br>Code | Lead<br>Spacing<br>(S) | Max.<br>DCL<br>@ +25 °C<br>( $\mu$ A) | Max. DF<br>@ +25 °C<br>120 Hz<br>(%) |
|-----------------------------------------------------------------|------------------------|--------------|------------------------|---------------------------------------|--------------------------------------|-----------------------------------------------------------------|------------------------|--------------|------------------------|---------------------------------------|--------------------------------------|
| 35 WVdc; 46 Vdc Surge @ 85 °C<br>23 WVdc; 28 Vdc Surge @ 125 °C |                        |              |                        |                                       |                                      | 50 WVdc; 65 Vdc Surge @ 85 °C<br>33 WVdc; 40 Vdc Surge @ 125 °C |                        |              |                        |                                       |                                      |
| 0.10                                                            | TDC104*035NSE-F        | E            | 0.125                  | 0.5                                   | 3                                    | .10                                                             | TDC104*050NSE-F        | E            | 0.125                  | 0.5                                   | 3                                    |
| 0.12                                                            | TDC124*035NSE-F        | E            | 0.125                  | 0.5                                   | 3                                    | .12                                                             | TDC124*050NSE-F        | E            | 0.125                  | 0.5                                   | 3                                    |
| 0.15                                                            | TDC154*035NSE-F        | E            | 0.125                  | 0.5                                   | 3                                    | .15                                                             | TDC154*050NSE-F        | E            | 0.125                  | 0.5                                   | 3                                    |
| 0.18                                                            | TDC184*035NSE-F        | E            | 0.125                  | 0.5                                   | 3                                    | .18                                                             | TDC184*050NSE-F        | E            | 0.125                  | 0.5                                   | 3                                    |
| 0.22                                                            | TDC224*035NSE-F        | E            | 0.125                  | 0.5                                   | 3                                    | .22                                                             | TDC224*050NSE-F        | E            | 0.125                  | 0.5                                   | 3                                    |
| 0.27                                                            | TDC274*035NSE-F        | E            | 0.125                  | 0.5                                   | 3                                    | .27                                                             | TDC274*050NSE-F        | E            | 0.125                  | 0.5                                   | 3                                    |
| 0.33                                                            | TDC334*035NSE-F        | E            | 0.125                  | 0.5                                   | 3                                    | .33                                                             | TDC334*050NSE-F        | E            | 0.125                  | 0.5                                   | 3                                    |
| 0.39                                                            | TDC394*035NSE-F        | E            | 0.125                  | 0.5                                   | 3                                    | .39                                                             | TDC394*050NSE-F        | E            | 0.125                  | 0.5                                   | 3                                    |
| 0.47                                                            | TDC474*035NSE-F        | E            | 0.125                  | 0.5                                   | 3                                    | .47                                                             | TDC474*050NSE-F        | E            | 0.125                  | 0.5                                   | 3                                    |
| 0.56                                                            | TDC564*035NSE-F        | E            | 0.125                  | 0.5                                   | 3                                    | .56                                                             | TDC564*050NSE-F        | E            | 0.125                  | 0.5                                   | 3                                    |
| 0.68                                                            | TDC684*035NSE-F        | E            | 0.125                  | 0.5                                   | 3                                    | .68                                                             | TDC684*050NSE-F        | E            | 0.125                  | 0.5                                   | 3                                    |
| 0.82                                                            | TDC824*035NSE-F        | E            | 0.125                  | 0.5                                   | 3                                    | .82                                                             | TDC824*050NSE-F        | E            | 0.125                  | 0.5                                   | 3                                    |
| 1.0                                                             | TDC105*035NSE-F        | E            | 0.125                  | 0.5                                   | 3                                    | 1.0                                                             | TDC105*050NSE-F        | E            | 0.125                  | 0.5                                   | 3                                    |
| 1.2                                                             | TDC125*035NSE-F        | E            | 0.125                  | 0.5                                   | 5                                    | 1.2                                                             | TDC125*050NSE-F        | E            | 0.125                  | 0.5                                   | 5                                    |
| 1.5                                                             | TDC155*035NSE-F        | E            | 0.125                  | 0.5                                   | 5                                    | 1.5                                                             | TDC155*050NSE-F        | E            | 0.125                  | 0.6                                   | 5                                    |
| 1.8                                                             | TDC185*035NSE--F       | E            | 0.125                  | 0.5                                   | 5                                    | 1.8                                                             | TDC185*050NSF-F        | F            | 0.125                  | 0.7                                   | 5                                    |
| 2.2                                                             | TDC225*035NSE-F        | E            | 0.125                  | 0.6                                   | 5                                    | 2.2                                                             | TDC225*050NSF-F        | F            | 0.125                  | 0.9                                   | 5                                    |
| 2.7                                                             | TDC275*035NSF-F        | F            | 0.125                  | 0.7                                   | 5                                    | 2.7                                                             | TDC275*050NSF-F        | F            | 0.125                  | 1.1                                   | 5                                    |
| 3.3                                                             | TDC335*035NSF-F        | F            | 0.125                  | 0.9                                   | 5                                    | 3.3                                                             | TDC335*050NSF-F        | F            | 0.125                  | 1.3                                   | 5                                    |
| 3.9                                                             | TDC339*035NSF-F        | F            | 0.125                  | 1.0                                   | 5                                    | 3.9                                                             | TDC395*050NSF-F        | F            | 0.125                  | 1.6                                   | 5                                    |
| 4.7                                                             | TDC475*035NSF-F        | F            | 0.125                  | 1.3                                   | 5                                    | 4.7                                                             | TDC475*050NSF-F        | F            | 0.125                  | 1.9                                   | 5                                    |
| 5.6                                                             | TDC565*035NSF-F        | F            | 0.125                  | 1.6                                   | 5                                    | 5.6                                                             | TDC565*050NSF-F        | F            | 0.125                  | 2.2                                   | 5                                    |
| 6.8                                                             | TDC685*035NSF-F        | F            | 0.125                  | 1.9                                   | 5                                    | 6.8                                                             | TDC685*050WSG-F        | G            | 0.25                   | 2.7                                   | 5                                    |
| 8.2                                                             | TDC825*035NSF-F        | F            | 0.125                  | 2.3                                   | 6                                    | 8.2                                                             | TDC825*050WSG-F        | G            | 0.25                   | 3.3                                   | 6                                    |
| 10                                                              | TDC106*035NSF-F        | F            | 0.125                  | 2.8                                   | 6                                    | 10                                                              | TDC106*050WSG-F        | G            | 0.25                   | 4.0                                   | 6                                    |
| 12                                                              | TDC126*035WSG-F        | G            | 0.25                   | 3.4                                   | 6                                    | 12                                                              | TDC126*050WSG-F        | G            | 0.25                   | 4.8                                   | 6                                    |
| 15                                                              | TDC156*035WSG-F        | G            | 0.25                   | 4.2                                   | 6                                    | 15                                                              | TDC156*050WSG-F        | G            | 0.25                   | 6.0                                   | 6                                    |
| 18                                                              | TDC186*035WSG-F        | G            | 0.25                   | 5.0                                   | 6                                    | 18                                                              | TDC186*050WSG-F        | G            | 0.25                   | 7.2                                   | 6                                    |
| 22                                                              | TDC226*035WSG-F        | G            | 0.25                   | 6.2                                   | 6                                    | 22                                                              | TDC226*050WSG-F        | G            | 0.25                   | 8.8                                   | 6                                    |
| 27                                                              | TDC276*035WSG-F        | G            | 0.25                   | 7.6                                   | 6                                    |                                                                 |                        |              |                        |                                       |                                      |
| 33                                                              | TDC336*035WSG-F        | G            | 0.25                   | 9.2                                   | 6                                    |                                                                 |                        |              |                        |                                       |                                      |
| 39                                                              | TDC396*035WSG-F        | G            | 0.25                   | 10                                    | 6                                    |                                                                 |                        |              |                        |                                       |                                      |
| 47                                                              | TDC476*035WSG-F        | G            | 0.25                   | 10                                    | 6                                    |                                                                 |                        |              |                        |                                       |                                      |

\* Indicates capacitance tolerance: K =  $\pm 10\%$ , M =  $\pm 20\%$ , (J =  $\pm 5\%$ , Special Order)

CDE reserves the right to substitute a tighter tolerance, higher voltage capacitor within the same case size.

## Type TDC Solid Tantalum Capacitors

---

**Notice and Disclaimer:** All product drawings, descriptions, specifications, statements, information and data (collectively, the "Information") in this datasheet or other publication are subject to change. The customer is responsible for checking, confirming and verifying the extent to which the Information contained in this datasheet or other publication is applicable to an order at the time the order is placed. All Information given herein is believed to be accurate and reliable, but it is presented without any guarantee, warranty, representation or responsibility of any kind, expressed or implied. Statements of suitability for certain applications are based on the knowledge that the Cornell Dubilier company providing such statements ("Cornell Dubilier") has of operating conditions that such Cornell Dubilier company regards as typical for such applications, but are not intended to constitute any guarantee, warranty or representation regarding any such matter – and Cornell Dubilier specifically and expressly disclaims any guarantee, warranty or representation concerning the suitability for a specific customer application, use, storage, transportation, or operating environment. The Information is intended for use only by customers who have the requisite experience and capability to determine the correct products for their application. Any technical advice inferred from this Information or otherwise provided by Cornell Dubilier with reference to the use of any Cornell Dubilier products is given gratis (unless otherwise specified by Cornell Dubilier), and Cornell Dubilier assumes no obligation or liability for the advice given or results obtained. Although Cornell Dubilier strives to apply the most stringent quality and safety standards regarding the design and manufacturing of its products, in light of the current state of the art, isolated component failures may still occur. Accordingly, customer applications which require a high degree of reliability or safety should employ suitable designs or other safeguards (such as installation of protective circuitry or redundancies or other appropriate protective measures) in order to ensure that the failure of an electrical component does not result in a risk of personal injury or property damage. Although all product-related warnings, cautions and notes must be observed, the customer should not assume that all safety measures are indicated in such warnings, cautions and notes, or that other safety measures may not be required.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## Cornell Dubilier:

[TDC106M050WSG](#) [TDC685K035NTF-F](#) [TDC686K025WSG](#) [TDC107K010WSG-F](#) [TDC226K035WSG-F](#)  
[TDC104K035NSE-F](#) [TDC104K050NSE-F](#) [TDC104M050NSE-F](#) [TDC105K020NSE-F](#) [TDC105K035NSE-F](#)  
[TDC105K050NSE-F](#) [TDC105K050WSE-F](#) [TDC105M035NSE-F](#) [TDC105M035WSE-F](#) [TDC105M050NSE-F](#)  
[TDC106K010NSF-F](#) [TDC106K020NSF-F](#) [TDC106K025NSF-F](#) [TDC106K035NSF-F](#) [TDC106K035WSF-F](#)  
[TDC106K050WSG-F](#) [TDC106M020NSF-F](#) [TDC106M025NSF-F](#) [TDC106M035NSF-F](#) [TDC107K020WSG-F](#)  
[TDC107M020WSG-F](#) [TDC154K050NSE-F](#) [TDC155K035NSE-F](#) [TDC156K020NSF-F](#) [TDC156K025NSF-F](#)  
[TDC156K035WSG-F](#) [TDC225K020NSE-F](#) [TDC225K025NSE-F](#) [TDC225K035NSE-F](#) [TDC225K050NSF-F](#)  
[TDC225M020NSE-F](#) [TDC225M025NSE-F](#) [TDC225M035NSE-F](#) [TDC226K010NSF-F](#) [TDC226K020NSF-F](#)  
[TDC226K025NSF-F](#) [TDC226K050WSG-F](#) [TDC226M020NSF-F](#) [TDC226M025NSF-F](#) [TDC226M035WSG-F](#)  
[TDC227K010WSG-F](#) [TDC334K035NSE-F](#) [TDC334K050NSE-F](#) [TDC334M050NSE-F](#) [TDC335K035NSF-F](#)  
[TDC335K050NSF-F](#) [TDC336K010NSF-F](#) [TDC336K020WSG-F](#) [TDC336K025WSG-F](#) [TDC336K035WSG-F](#)  
[TDC474K035NSE-F](#) [TDC474K050NSE-F](#) [TDC475K010NSE-F](#) [TDC475K020NSE-F](#) [TDC475K025NSF-F](#)  
[TDC475K035NSF-F](#) [TDC475K050NSF-F](#) [TDC476K006NSF-F](#) [TDC476K010NSF-F](#) [TDC476K020WSG-F](#)  
[TDC476K025WSG-F](#) [TDC476K035WSG-F](#) [TDC476M020WSG-F](#) [TDC476M025WSG-F](#) [TDC476M035WSG-F](#)  
[TDC565K025NSF-F](#) [TDC685K025NSF-F](#) [TDC685K035NSF-F](#) [TDC685M025NSF-F](#) [TDC685M035WSF-F](#)  
[TDC686K025WSG-F](#) [TDC825K025NSF-F](#) [TDC157K010WSG-F](#) [TDC225M035WSE-F](#) [TDC565K035NSF-F](#)  
[TDC685M035NSF-F](#)