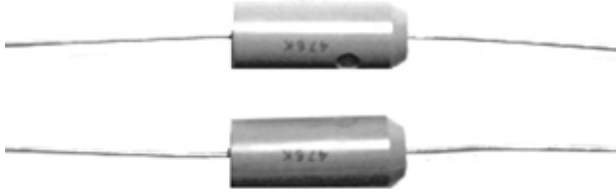


## Molded, Axial Lead, Solid Tantalum Capacitors



The Type TAC molded solid tantalum capacitor is great for putting a lot of capacitance in a small space in a high temperature application. The TAC is constructed in a shock and vibration resistant, flame retardant, rugged, precision molded case that is tapered on one end for polarity identification and available on tape and reel.

### Highlights

- ♦ Precision Molded
- ♦ Flame Retardant
- ♦ Tapered for Polarity Identification
- ♦ Highest CV per Case Size
- ♦ Miniature Sizes
- ♦ Highly Resistant to Shock and Vibration

### Specifications

|                                     |                                                                                             |
|-------------------------------------|---------------------------------------------------------------------------------------------|
| <b>Capacitance Range:</b>           | 0.10 $\mu$ F to 330 $\mu$ F                                                                 |
| <b>Voltage Range:</b>               | 6 WVdc to 50 WVdc at 85 °C                                                                  |
| <b>Tolerance:</b>                   | $\pm$ 10% Standard ( $\pm$ 5% by special order)                                             |
| <b>Operating Temperature Range:</b> | -55 °C to +125 °C (with proper derating)                                                    |
| <b>Reverse Voltage:</b>             | 15% of rated voltage @ 25 °C<br>5% of rated voltage @ 85 °C<br>1% of rated voltage @ 125 °C |
| <b>Capacitance Change Maximum:</b>  | -10% @ -55 °C<br>+10% @ +85 °C<br>+12% @ +125 °C                                            |

**Reel Packaging per EIA- RS-296:**

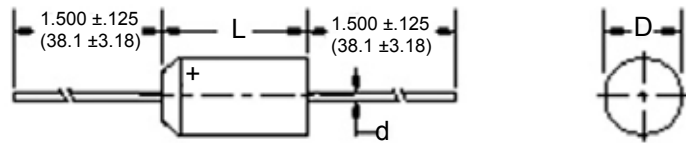
| Case Code | Quantity          |
|-----------|-------------------|
| 1         | 4500 per 12" Reel |
| 2         | 4000 per 12" Reel |
| 5 & 6     | 2500 per 12" Reel |
| 7 & 8     | 500 per 12" Reel  |

### Part Numbering System

| TAC  | 107                | K             | 006          | P         | 0           | 8         |
|------|--------------------|---------------|--------------|-----------|-------------|-----------|
| Type | Capacitance        | Tolerance     | Voltage      | Polar     | Molded Case | Case Code |
| TAC  | 394 = 0.39 $\mu$ F | J = $\pm$ 5%  | 006 = 6 Vdc  | P = Polar | 0           | 1         |
|      | 105 = 1.0 $\mu$ F  | K = $\pm$ 10% | 010 = 10 Vdc |           |             | 2         |
|      | 225 = 2.2 $\mu$ F  |               | 015 = 15 dc  |           |             | 5         |
|      | 186 = 18 $\mu$ F   |               | 020 = 20 Vdc |           |             | 6         |
|      | 107 = 100 $\mu$ F  |               | 025 = 25 Vdc |           |             | 7         |
|      |                    |               | 035 = 35 Vdc |           |             | 8         |
|      |                    |               | 050 = 50 Vdc |           |             |           |

# Type TAC Solid Tantalum Capacitors

## Capacitor Outline Drawing



Inches (Millimeters)

| Case Code | D (Max)     | L (Max)      | d          |
|-----------|-------------|--------------|------------|
| 1         | .095 (2.41) | .260 (6.6)   | .020 (.51) |
| 2         | .110 (2.79) | .290 (7.37)  | .020 (.51) |
| 5         | .180 (4.57) | .345 (8.76)  | .020 (.51) |
| 6         | .180 (4.57) | .420 (10.67) | .020 (.51) |
| 7         | .280 (7.11) | .530 (13.46) | .025 (.64) |
| 8         | .300 (7.62) | .710 (18.03) | .025 (.64) |

## Ratings

| Cap<br>( $\mu$ F)                          | Catalog<br>Part Number | Case<br>Code | Max<br>DCL<br>@ +25 °C<br>( $\mu$ A) | Max<br>DF %<br>@ +25 °C<br>120 Hz |
|--------------------------------------------|------------------------|--------------|--------------------------------------|-----------------------------------|
| <b>6 WVdc @ 85 °C<br/>4 WVdc @ 125 °C</b>  |                        |              |                                      |                                   |
| 3.3                                        | TAC335K006P01          | 1            | 0.5                                  | 4                                 |
| 3.9                                        | TAC395K006P01          | 1            | 0.5                                  | 4                                 |
| 4.7                                        | TAC475K006P01          | 1            | 0.5                                  | 4                                 |
| 5.6                                        | TAC565K006P02          | 2            | 0.5                                  | 4                                 |
| 6.8                                        | TAC685K006P02          | 2            | 0.5                                  | 6                                 |
| 8.2                                        | TAC825K006P02          | 2            | 0.5                                  | 6                                 |
| 10                                         | TAC106K006P02          | 2            | 0.5                                  | 6                                 |
| 12                                         | TAC126K006P02          | 2            | 0.6                                  | 6                                 |
| 15                                         | TAC156K006P02          | 2            | 0.7                                  | 6                                 |
| 18                                         | TAC186K006P05          | 5            | 0.9                                  | 6                                 |
| 22                                         | TAC226K006P05          | 5            | 1.1                                  | 6                                 |
| 27                                         | TAC276K006P05          | 5            | 1.3                                  | 6                                 |
| 33                                         | TAC336K006P05          | 5            | 1.5                                  | 6                                 |
| 39                                         | TAC396K006P06          | 6            | 1.9                                  | 6                                 |
| 47                                         | TAC476K006P06          | 6            | 2.3                                  | 6                                 |
| 56                                         | TAC566K006P06          | 6            | 2.7                                  | 6                                 |
| 68                                         | TAC686K006P06          | 6            | 3.3                                  | 6                                 |
| 82                                         | TAC826K006P07          | 7            | 3.9                                  | 8                                 |
| 100                                        | TAC107K006P07          | 7            | 4.8                                  | 8                                 |
| 120                                        | TAC127K006P07          | 7            | 5.0                                  | 8                                 |
| 150                                        | TAC157K006P07          | 7            | 5.0                                  | 8                                 |
| 180                                        | TAC187K006P07          | 7            | 8.6                                  | 8                                 |
| 220                                        | TAC227K006P07          | 7            | 10.0                                 | 8                                 |
| 270                                        | TAC277K006P08          | 8            | 10.0                                 | 8                                 |
| 330                                        | TAC337K006P08          | 8            | 10.0                                 | 8                                 |
| <b>10 WVdc @ 85 °C<br/>7 WVdc @ 125 °C</b> |                        |              |                                      |                                   |
| 2.2                                        | TAC225K010P01          | 1            | 0.5                                  | 4                                 |
| 2.7                                        | TAC275K010P01          | 1            | 0.5                                  | 4                                 |
| 3.3                                        | TAC335K010P01          | 1            | 0.5                                  | 4                                 |
| 3.9                                        | TAC395K010P02          | 2            | 0.5                                  | 4                                 |
| 4.7                                        | TAC475K010P02          | 2            | 0.5                                  | 4                                 |
| 5.6                                        | TAC565K010P02          | 2            | 0.5                                  | 4                                 |
| 6.8                                        | TAC685K010P02          | 2            | 0.5                                  | 6                                 |
| 8.2                                        | TAC825K010P02          | 2            | 0.7                                  | 6                                 |
| 10                                         | TAC106K010P02          | 2            | 0.8                                  | 6                                 |
| 12                                         | TAC126K010P05          | 5            | 1.0                                  | 6                                 |

| Cap<br>( $\mu$ F)                           | Catalog<br>Part Number | Case<br>Code | Max<br>DCL<br>@ +25 °C<br>( $\mu$ A) | Max<br>DF %<br>@ +25 °C<br>120 Hz |
|---------------------------------------------|------------------------|--------------|--------------------------------------|-----------------------------------|
| <b>10 WVdc @ 85 °C<br/>7 WVdc @ 125 °C</b>  |                        |              |                                      |                                   |
| 15                                          | TAC156K010P05          | 5            | 1.2                                  | 6                                 |
| 18                                          | TAC186K010P05          | 5            | 1.4                                  | 6                                 |
| 22                                          | TAC226K010P05          | 5            | 1.5                                  | 6                                 |
| 27                                          | TAC276K010P06          | 6            | 2.2                                  | 6                                 |
| 33                                          | TAC336K010P06          | 6            | 2.6                                  | 6                                 |
| 39                                          | TAC396K010P06          | 6            | 3.1                                  | 6                                 |
| 47                                          | TAC476K010P06          | 6            | 3.8                                  | 6                                 |
| 56                                          | TAC566K010P07          | 7            | 4.4                                  | 6                                 |
| 68                                          | TAC686K010P07          | 7            | 5.0                                  | 6                                 |
| 82                                          | TAC826K010P07          | 7            | 5.0                                  | 8                                 |
| 100                                         | TAC107K010P07          | 7            | 8.0                                  | 8                                 |
| 120                                         | TAC127K010P07          | 7            | 9.6                                  | 8                                 |
| 150                                         | TAC157K010P07          | 7            | 10.0                                 | 8                                 |
| 180                                         | TAC187K010P08          | 8            | 10.0                                 | 8                                 |
| 220                                         | TAC227K010P08          | 8            | 10.0                                 | 8                                 |
| <b>15 WVdc @ 85 °C<br/>10 WVdc @ 125 °C</b> |                        |              |                                      |                                   |
| 1.5                                         | TAC155K015P01          | 1            | 0.5                                  | 4                                 |
| 1.8                                         | TAC185K015P01          | 1            | 0.5                                  | 4                                 |
| 2.2                                         | TAC225K015P01          | 1            | 0.5                                  | 4                                 |
| 2.7                                         | TAC275K015P02          | 2            | 0.5                                  | 4                                 |
| 3.3                                         | TAC335K015P02          | 2            | 0.5                                  | 4                                 |
| 3.9                                         | TAC395K015P02          | 2            | 0.5                                  | 4                                 |
| 4.7                                         | TAC475K015P02          | 2            | 0.6                                  | 4                                 |
| 5.6                                         | TAC565K015P02          | 2            | 0.7                                  | 4                                 |
| 6.8                                         | TAC685K015P02          | 2            | 0.8                                  | 6                                 |
| 8.2                                         | TAC825K015P05          | 5            | 1.0                                  | 6                                 |
| 10                                          | TAC106K015P05          | 5            | 1.2                                  | 6                                 |
| 12                                          | TAC126K015P05          | 5            | 1.4                                  | 6                                 |
| 15                                          | TAC156K015P05          | 5            | 1.5                                  | 6                                 |
| 18                                          | TAC186K015P06          | 6            | 2.2                                  | 6                                 |
| 22                                          | TAC226K015P06          | 6            | 2.6                                  | 6                                 |
| 27                                          | TAC276K015P06          | 6            | 3.2                                  | 6                                 |
| 33                                          | TAC336K015P06          | 6            | 4.0                                  | 6                                 |
| 39                                          | TAC396K015P07          | 7            | 4.7                                  | 6                                 |
| 47                                          | TAC476K015P07          | 7            | 5.0                                  | 6                                 |
| 56                                          | TAC566K015P07          | 7            | 6.7                                  | 6                                 |

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

# Type TAC Solid Tantalum Capacitors

## Ratings

| Cap<br>(µF)                                       | Catalog<br>Part Number | Case<br>Code | Max<br>DCL<br>@ +25 °C<br>(µA) | Max<br>DF %<br>@ +25 °C<br>120 Hz |
|---------------------------------------------------|------------------------|--------------|--------------------------------|-----------------------------------|
| <b>15 WVdc @ 85 °C</b><br><b>10 WVdc @ 125 °C</b> |                        |              |                                |                                   |
| 68                                                | TAC686K015P07          | 7            | 8.2                            | 6                                 |
| 82                                                | TAC826K015P07          | 7            | 9.8                            | 8                                 |
| 100                                               | TAC107K015P07          | 7            | 10.0                           | 8                                 |
| 120                                               | TAC127K015P08          | 8            | 10.0                           | 8                                 |
| 150                                               | TAC157K015P08          | 8            | 10.0                           | 8                                 |
| <b>20 WVdc @ 85 °C</b><br><b>13 WVdc @ 125 °C</b> |                        |              |                                |                                   |
| 1                                                 | TAC105K020P01          | 1            | 0.5                            | 4                                 |
| 1.2                                               | TAC125K020P01          | 1            | 0.5                            | 4                                 |
| 1.5                                               | TAC155K020P01          | 1            | 0.5                            | 4                                 |
| 1.8                                               | TAC185K020P02          | 2            | 0.5                            | 4                                 |
| 2.2                                               | TAC225K020P02          | 2            | 0.5                            | 4                                 |
| 2.7                                               | TAC275K020P02          | 2            | 0.5                            | 4                                 |
| 3.3                                               | TAC335K020P02          | 2            | 0.5                            | 4                                 |
| 3.9                                               | TAC395K020P02          | 2            | 0.6                            | 4                                 |
| 4.7                                               | TAC475K020P02          | 2            | 0.8                            | 4                                 |
| 5.6                                               | TAC565K020P05          | 5            | 0.9                            | 4                                 |
| 6.8                                               | TAC685K020P05          | 5            | 1.1                            | 6                                 |
| 8.2                                               | TAC825K020P05          | 5            | 1.3                            | 6                                 |
| 10                                                | TAC106K020P05          | 5            | 1.6                            | 6                                 |
| 12                                                | TAC126K020P06          | 6            | 1.9                            | 6                                 |
| 15                                                | TAC156K020P06          | 6            | 2.4                            | 6                                 |
| 18                                                | TAC186K020P06          | 6            | 2.9                            | 6                                 |
| 22                                                | TAC226K020P06          | 6            | 3.5                            | 6                                 |
| 27                                                | TAC276K020P07          | 7            | 4.3                            | 6                                 |
| 33                                                | TAC336K020P07          | 7            | 5.0                            | 6                                 |
| 39                                                | TAC396K020P07          | 7            | 6.2                            | 6                                 |
| 47                                                | TAC476K020P07          | 7            | 7.5                            | 6                                 |
| 56                                                | TAC566K020P07          | 7            | 8.9                            | 6                                 |
| 68                                                | TAC686K020P07          | 7            | 10.0                           | 6                                 |
| 82                                                | TAC826K020P08          | 8            | 10.0                           | 8                                 |
| 100                                               | TAC107K020P08          | 8            | 10.0                           | 8                                 |
| <b>25 WVdc @ 85 °C</b><br><b>17 WVdc @ 125 °C</b> |                        |              |                                |                                   |
| 0.47                                              | TAC474K025P01          | 1            | 0.5                            | 3                                 |
| 0.56                                              | TAC564K025P01          | 1            | 0.5                            | 3                                 |
| 0.68                                              | TAC684K025P01          | 1            | 0.5                            | 3                                 |
| 0.82                                              | TAC824K025P01          | 1            | 0.5                            | 3                                 |
| 1.0                                               | TAC105K025P01          | 1            | 0.5                            | 3                                 |
| 1.2                                               | TAC125K025P02          | 2            | 0.5                            | 3                                 |
| 1.5                                               | TAC155K025P02          | 2            | 0.5                            | 3                                 |
| 1.8                                               | TAC185K025P02          | 2            | 0.5                            | 3                                 |
| 2.2                                               | TAC225K025P02          | 2            | 0.5                            | 3                                 |
| 2.7                                               | TAC275K025P02          | 2            | 0.5                            | 3                                 |

| Cap<br>(µF)                                       | Catalog<br>Part Number | Case<br>Code | Max<br>DCL<br>@ +25 °C<br>(µA) | Max<br>DF %<br>@ +25 °C<br>120 Hz |
|---------------------------------------------------|------------------------|--------------|--------------------------------|-----------------------------------|
| <b>25 WVdc @ 85 °C</b><br><b>17 WVdc @ 125 °C</b> |                        |              |                                |                                   |
| 3.3                                               | TAC335K025P02          | 2            | 0.7                            | 3                                 |
| 3.9                                               | TAC395K025P05          | 5            | 0.8                            | 3                                 |
| 4.7                                               | TAC475K025P05          | 5            | 0.9                            | 4                                 |
| 5.6                                               | TAC565K025P05          | 5            | 1.1                            | 4                                 |
| 6.8                                               | TAC685K025P05          | 5            | 1.4                            | 4                                 |
| 8.2                                               | TAC825K025P05          | 5            | 1.5                            | 4                                 |
| 10                                                | TAC106K025P05          | 5            | 1.5                            | 4                                 |
| 12                                                | TAC126K025P06          | 6            | 2.4                            | 4                                 |
| 15                                                | TAC156K025P06          | 6            | 3.0                            | 4                                 |
| 18                                                | TAC186K025P07          | 7            | 3.6                            | 6                                 |
| 22                                                | TAC226K025P07          | 7            | 4.4                            | 6                                 |
| 27                                                | TAC276K025P07          | 7            | 5.4                            | 6                                 |
| 33                                                | TAC336K025P07          | 7            | 6.6                            | 6                                 |
| 39                                                | TAC396K025P07          | 7            | 7.8                            | 6                                 |
| 47                                                | TAC476K025P07          | 7            | 9.4                            | 6                                 |
| 56                                                | TAC566K025P08          | 8            | 10                             | 6                                 |
| 68                                                | TAC686K025P08          | 8            | 10                             | 6                                 |
| <b>35 WVdc @ 85 °C</b><br><b>23 WVdc @ 125 °C</b> |                        |              |                                |                                   |
| 0.10                                              | TAC104K035P01          | 1            | 0.5                            | 3                                 |
| 0.12                                              | TAC124K035P01          | 1            | 0.5                            | 3                                 |
| 0.15                                              | TAC154K035P01          | 1            | 0.5                            | 3                                 |
| 0.18                                              | TAC184K035P01          | 1            | 0.5                            | 3                                 |
| 0.22                                              | TAC224K035P01          | 1            | 0.5                            | 3                                 |
| 0.27                                              | TAC274K035P01          | 1            | 0.5                            | 3                                 |
| 0.33                                              | TAC334K035P01          | 1            | 0.5                            | 3                                 |
| 0.39                                              | TAC394K035P01          | 1            | 0.5                            | 3                                 |
| 0.47                                              | TAC474K035P01          | 1            | 0.5                            | 3                                 |
| 0.56                                              | TAC564K035P02          | 2            | 0.5                            | 3                                 |
| 0.68                                              | TAC684K035P02          | 2            | 0.5                            | 3                                 |
| 0.82                                              | TAC824K035P02          | 2            | 0.5                            | 3                                 |
| 1.0                                               | TAC105K035P02          | 2            | 0.5                            | 3                                 |
| 1.2                                               | TAC125K035P02          | 2            | 0.5                            | 3                                 |
| 1.5                                               | TAC155K035P02          | 2            | 0.5                            | 3                                 |
| 1.8                                               | TAC185K035P05          | 5            | 0.5                            | 3                                 |
| 2.2                                               | TAC225K035P05          | 5            | 0.6                            | 3                                 |
| 2.7                                               | TAC275K035P05          | 5            | 0.8                            | 3                                 |
| 3.3                                               | TAC335K035P05          | 5            | 0.9                            | 4                                 |
| 3.9                                               | TAC395K035P05          | 5            | 1.1                            | 4                                 |
| 4.7                                               | TAC475K035P05          | 5            | 1.3                            | 4                                 |
| 5.6                                               | TAC565K035P06          | 6            | 1.6                            | 4                                 |
| 6.8                                               | TAC685K035P06          | 6            | 1.9                            | 4                                 |
| 8.2                                               | TAC825K035P06          | 6            | 2.3                            | 4                                 |
| 10                                                | TAC106K035P06          | 6            | 2.8                            | 4                                 |

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

# Type TAC Solid Tantalum Capacitors

## Ratings

| Cap<br>( $\mu$ F)                   | Catalog<br>Part Number | Case<br>Code | Max<br>DCL<br>@ +25 °C<br>( $\mu$ A) | Max<br>DF %<br>@ +25 °C<br>120 Hz |
|-------------------------------------|------------------------|--------------|--------------------------------------|-----------------------------------|
| 35 WVdc @ 85 °C<br>23 WVdc @ 125 °C |                        |              |                                      |                                   |
| 12                                  | TAC126K035P07          | 7            | 3.3                                  | 4                                 |
| 15                                  | TAC156K035P07          | 7            | 4.2                                  | 6                                 |
| 18                                  | TAC186K035P07          | 7            | 5.0                                  | 6                                 |
| 22                                  | TAC226K035P07          | 7            | 6.2                                  | 6                                 |
| 27                                  | TAC276K035P07          | 7            | 7.5                                  | 6                                 |
| 33                                  | TAC336K035P07          | 7            | 9.2                                  | 6                                 |
| 39                                  | TAC396K035P08          | 8            | 10                                   | 6                                 |
| 47                                  | TAC476K035P08          | 8            | 10                                   | 6                                 |
| 50 WVdc @ 85 °C<br>33 WVdc @ 125 °C |                        |              |                                      |                                   |
| 0.10                                | TAC104K050P01          | 1            | 0.5                                  | 3                                 |
| 0.12                                | TAC124K050P01          | 1            | 0.5                                  | 3                                 |
| 0.15                                | TAC154K050P01          | 1            | 0.5                                  | 3                                 |
| 0.18                                | TAC184K050P01          | 1            | 0.5                                  | 3                                 |
| 0.22                                | TAC224K050P01          | 1            | 0.5                                  | 3                                 |
| 0.27                                | TAC274K050P01          | 1            | 0.5                                  | 3                                 |
| 0.33                                | TAC334K050P02          | 2            | 0.5                                  | 3                                 |
| 0.39                                | TAC394K050P02          | 2            | 0.5                                  | 3                                 |
| 0.47                                | TAC474K050P02          | 2            | 0.5                                  | 3                                 |
| 0.56                                | TAC564K050P02          | 2            | 0.5                                  | 3                                 |

| Cap<br>( $\mu$ F)                   | Catalog<br>Part Number | Case<br>Code | Max<br>DCL<br>@ +25 °C<br>( $\mu$ A) | Max<br>DF %<br>@ +25 °C<br>120 Hz |
|-------------------------------------|------------------------|--------------|--------------------------------------|-----------------------------------|
| 50 WVdc @ 85 °C<br>33 WVdc @ 125 °C |                        |              |                                      |                                   |
| 0.68                                | TAC684K050P02          | 2            | 0.5                                  | 3                                 |
| 0.82                                | TAC824K050P02          | 2            | 0.5                                  | 3                                 |
| 1.0                                 | TAC105K050P02          | 2            | 0.5                                  | 3                                 |
| 1.2                                 | TAC125K050P05          | 5            | 0.5                                  | 3                                 |
| 1.5                                 | TAC155K050P05          | 5            | 0.6                                  | 4                                 |
| 1.8                                 | TAC185K050P05          | 5            | 0.7                                  | 4                                 |
| 2.2                                 | TAC225K050P05          | 5            | 0.9                                  | 4                                 |
| 2.7                                 | TAC275K050P06          | 6            | 1.1                                  | 4                                 |
| 3.3                                 | TAC335K050P06          | 6            | 1.3                                  | 4                                 |
| 3.9                                 | TAC395K050P06          | 6            | 1.6                                  | 4                                 |
| 4.7                                 | TAC475K050P06          | 6            | 1.9                                  | 4                                 |
| 5.6                                 | TAC565K050P07          | 7            | 2.2                                  | 4                                 |
| 6.8                                 | TAC685K050P07          | 7            | 2.7                                  | 4                                 |
| 8.2                                 | TAC825K050P07          | 7            | 3.2                                  | 4                                 |
| 10                                  | TAC106K050P07          | 7            | 4.0                                  | 6                                 |
| 12                                  | TAC126K050P08          | 8            | 4.8                                  | 6                                 |
| 15                                  | TAC156K050P08          | 8            | 6.0                                  | 6                                 |
| 18                                  | TAC186K050P08          | 8            | 7.2                                  | 6                                 |
| 22                                  | TAC226K050P08          | 8            | 8.8                                  | 6                                 |

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

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