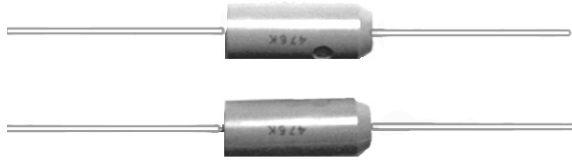


# Type TAC Solid Tantalum Capacitors

## Molded, Axial Leaded 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 it is 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 Vibraton

### Specifications

**Capacitance Range:** 0.10  $\mu$ F to 330  $\mu$ F  
**Voltage Range:** 6 WVdc to 50 WVdc at 85 °C  
**Tolerance:**  $\pm$ 10% Standard ( $\pm$ 5% by special order)  
**Operating Temperature Range:** -55 °C to +125 °C (with proper derating)

**Reverse Voltage:** 15% of rated voltage @ 25 °C  
 5% of rated voltage @ 85 °C  
 1% of rated voltage @ 125 °C

**Capacitance Change Maximum:** -10% @ -55 °C  
 +10% @ +85 °C  
 +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  |

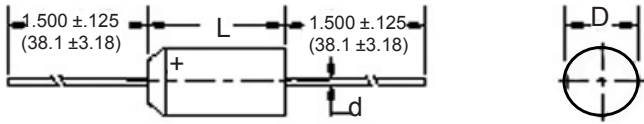
### Part Numbering System

| TAC  | 107                | K             | 006          | P         | 0           | 7         |
|------|--------------------|---------------|--------------|-----------|-------------|-----------|
| 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 (µF)                                   | Case Code | Max DCL @ +25 °C (µA) | Max DF % @ +25 °C 120 Hz | Catalog Part Number | Cap (µF)                                    | Case Code | Max DCL @ +25 °C (µA) | Max DF % @ +25 °C 120 Hz | Catalog Part Number |
|--|-----------|-----------------------|--------------------------|---------------------|---|-----------|-----------------------|--------------------------|---------------------|
| <b>6 WVdc @ 85 °C<br/>4 WVdc @ 125 °C</b>  |           |                       |                          |                     | <b>10 WVdc @ 85 °C<br/>7 WVdc @ 125 °C</b>  |           |                       |                          |                     |
| 3.3  | 1         | 0.5                   | 4                        | TAC335K006P01       | 15  | 5         | 1.2                   | 6                        | TAC156K010P05       |
| 3.9  | 1         | 0.5                   | 4                        | TAC395K006P01       | 18  | 5         | 1.4                   | 6                        | TAC186K010P05       |
| 4.7  | 1         | 0.5                   | 4                        | TAC475K006P01       | 22  | 5         | 1.5                   | 6                        | TAC226K010P05       |
| 5.6  | 2         | 0.5                   | 4                        | TAC565K006P02       | 27  | 6         | 2.2                   | 6                        | TAC276K010P06       |
| 6.8  | 2         | 0.5                   | 6                        | TAC685K006P02       | 33  | 6         | 2.6                   | 6                        | TAC336K010P06       |
| 8.2  | 2         | 0.5                   | 6                        | TAC825K006P02       | 39  | 6         | 3.1                   | 6                        | TAC396K010P06       |
| 10   | 2         | 0.5                   | 6                        | TAC106K006P02       | 47  | 6         | 3.8                   | 6                        | TAC476K010P06       |
| 12   | 2         | 0.6                   | 6                        | TAC126K006P02       | 56  | 7         | 4.4                   | 6                        | TAC566K010P07       |
| 15   | 2         | 0.7                   | 6                        | TAC156K006P02       | 68  | 7         | 5.0                   | 6                        | TAC686K010P07       |
| 18   | 5         | 0.9                   | 6                        | TAC186K006P05       | 82  | 7         | 5.0                   | 8                        | TAC826K010P07       |
| 22   | 5         | 1.1                   | 6                        | TAC226K006P05       | 100   | 7         | 8.0                   | 8                        | TAC107K010P07       |
| 27   | 5         | 1.3                   | 6                        | TAC276K006P05       | 120   | 7         | 9.6                   | 8                        | TAC127K010P07       |
| 33   | 5         | 1.5                   | 6                        | TAC336K006P05       | 150   | 7         | 10.0                  | 8                        | TAC157K010P07       |
| 39   | 6         | 1.9                   | 6                        | TAC396K006P06       | 180   | 8         | 10.0                  | 8                        | TAC187K010P08       |
| 47   | 6         | 2.3                   | 6                        | TAC476K006P06       | 220   | 8         | 10.0                  | 8                        | TAC227K010P08       |
| 56   | 6         | 2.7                   | 6                        | TAC566K006P06       | <b>15 WVdc @ 85 °C<br/>10 WVdc @ 125 °C</b> |           |                       |                          |                     |
| 68   | 6         | 3.3                   | 6                        | TAC686K006P06       | 1.5   | 1         | 0.5                   | 4                        | TAC155K015P01       |
| 82   | 7         | 3.9                   | 8                        | TAC826K006P07       | 1.8   | 1         | 0.5                   | 4                        | TAC185K015P01       |
| 100  | 7         | 4.8                   | 8                        | TAC107K006P07       | 2.2   | 1         | 0.5                   | 4                        | TAC225K015P01       |
| 120  | 7         | 5.0                   | 8                        | TAC127K006P07       | 2.7   | 2         | 0.5                   | 4                        | TAC275K015P02       |
| 150  | 7         | 5.0                   | 8                        | TAC157K006P07       | 3.3   | 2         | 0.5                   | 4                        | TAC335K015P02       |
| 180  | 7         | 8.6                   | 8                        | TAC187K006P07       | 3.9   | 2         | 0.5                   | 4                        | TAC395K015P02       |
| 220  | 7         | 10.0                  | 8                        | TAC227K006P07       | 4.7   | 2         | 0.6                   | 4                        | TAC475K015P02       |
| 270  | 8         | 10.0                  | 8                        | TAC277K006P08       | 5.6   | 2         | 0.7                   | 4                        | TAC565K015P02       |
| 330  | 8         | 10.0                  | 8                        | TAC337K006P08       | 6.8   | 2         | 0.8                   | 6                        | TAC685K015P02       |
| <b>10 WVdc @ 85 °C<br/>7 WVdc @ 125 °C</b> |           |                       |                          |                     | 8.2   | 5         | 1.0                   | 6                        | TAC825K015P05       |
| 2.2  | 1         | 0.5                   | 4                        | TAC225K010P01       | 10  | 5         | 1.2                   | 6                        | TAC106K015P05       |
| 2.7  | 1         | 0.5                   | 4                        | TAC275K010P01       | 12  | 5         | 1.4                   | 6                        | TAC126K015P05       |
| 3.3  | 1         | 0.5                   | 4                        | TAC335K010P01       | 15  | 5         | 1.5                   | 6                        | TAC156K015P05       |
| 3.9  | 2         | 0.5                   | 4                        | TAC395K010P02       | 18  | 6         | 2.2                   | 6                        | TAC186K015P06       |
| 4.7  | 2         | 0.5                   | 4                        | TAC475K010P02       | 22  | 6         | 2.6                   | 6                        | TAC226K015P06       |
| 5.6  | 2         | 0.5                   | 4                        | TAC565K010P02       | 27  | 6         | 3.2                   | 6                        | TAC276K015P06       |
| 6.8  | 2         | 0.5                   | 6                        | TAC685K010P02       | 33  | 6         | 4.0                   | 6                        | TAC336K015P06       |
| 8.2  | 2         | 0.7                   | 6                        | TAC825K010P02       | 39  | 7         | 4.7                   | 6                        | TAC396K015P07       |
| 10   | 2         | 0.8                   | 6                        | TAC106K010P02       | 47  | 7         | 5.0                   | 6                        | TAC476K015P07       |
| 12   | 5         | 1.0                   | 6                        | TAC126K010P05       | 56  | 7         | 6.7                   | 6                        | TAC566K015P07       |

CDE may improve your order and shorten delivery by substituting tighter tolerance or higher voltage capacitors in the same case size.

# Type TAC Solid Tantalum Capacitors

| Cap<br>( $\mu$ F)                           | Case<br>Code | Max<br>DCL<br>@ +25 °C<br>( $\mu$ A) | Max<br>DF %<br>@ +25 °C<br>120 Hz | Catalog<br>Part Number | Cap<br>( $\mu$ F)                           | Case<br>Code | Max<br>DCL<br>@ +25 °C<br>( $\mu$ A) | Max<br>DF %<br>@ +25 °C<br>120 Hz | Catalog<br>Part Number |
|---|--------------|--------------------------------------|-----------------------------------|------------------------|---|--------------|--------------------------------------|-----------------------------------|------------------------|
| <b>15 WVdc @ 85 °C<br/>10 WVdc @ 125 °C</b> |              |                                      |                                   |                        | <b>25 WVdc @ 85 °C<br/>17 WVdc @ 125 °C</b> |              |                                      |                                   |                        |
| 68  | 7            | 8.2                                  | 6                                 | TAC686K015P07          | 3.3   | 2            | 0.7                                  | 3                                 | TAC335K025P02          |
| 82  | 7            | 9.8                                  | 8                                 | TAC826K015P07          | 3.9   | 5            | 0.8                                  | 3                                 | TAC395K025P05          |
| 100   | 7            | 10.0                                 | 8                                 | TAC107K015P07          | 4.7   | 5            | 0.9                                  | 4                                 | TAC475K025P05          |
| 120   | 8            | 10.0                                 | 8                                 | TAC127K015P08          | 5.6   | 5            | 1.1                                  | 4                                 | TAC565K025P05          |
| 150   | 8            | 10.0                                 | 8                                 | TAC157K015P08          | 6.8   | 5            | 1.4                                  | 4                                 | TAC685K025P05          |
| <b>20 WVdc @ 85 °C<br/>13 WVdc @ 125 °C</b> |              |                                      |                                   |                        | <b>35 WVdc @ 85 °C<br/>23 WVdc @ 125 °C</b> |              |                                      |                                   |                        |
| 1   | 1            | 0.5                                  | 4                                 | TAC105K020P01          | 8.2   | 5            | 1.5                                  | 4                                 | TAC825K025P05          |
| 1.2   | 1            | 0.5                                  | 4                                 | TAC125K020P01          | 10  | 5            | 1.5                                  | 4                                 | TAC106K025P05          |
| 1.5   | 1            | 0.5                                  | 4                                 | TAC155K020P01          | 12  | 6            | 2.4                                  | 4                                 | TAC126K025P06          |
| 1.8   | 2            | 0.5                                  | 4                                 | TAC185K020P02          | 15  | 6            | 3.0                                  | 4                                 | TAC156K025P06          |
| 2.2   | 2            | 0.5                                  | 4                                 | TAC225K020P02          | 18  | 7            | 3.6                                  | 6                                 | TAC186K025P07          |
| 2.7   | 2            | 0.5                                  | 4                                 | TAC275K020P02          | 22  | 7            | 4.4                                  | 6                                 | TAC226K025P07          |
| 3.3   | 2            | 0.5                                  | 4                                 | TAC335K020P02          | 27  | 7            | 5.4                                  | 6                                 | TAC276K025P07          |
| 3.9   | 2            | 0.6                                  | 4                                 | TAC395K020P02          | 33  | 7            | 6.6                                  | 6                                 | TAC336K025P07          |
| 4.7   | 2            | 0.8                                  | 4                                 | TAC475K020P02          | 39  | 7            | 7.8                                  | 6                                 | TAC396K025P07          |
| 5.6   | 5            | 0.9                                  | 4                                 | TAC565K020P05          | 47  | 7            | 9.4                                  | 6                                 | TAC476K025P07          |
| 6.8   | 5            | 1.1                                  | 6                                 | TAC685K020P05          | 56  | 8            | 10                                   | 6                                 | TAC566K025P08          |
| 8.2   | 5            | 1.3                                  | 6                                 | TAC825K020P05          | 68  | 8            | 10                                   | 6                                 | TAC686K025P08          |
| 10  | 5            | 1.6                                  | 6                                 | TAC106K020P05          | <b>35 WVdc @ 85 °C<br/>23 WVdc @ 125 °C</b> |              |                                      |                                   |                        |
| 12  | 6            | 1.9                                  | 6                                 | TAC126K020P06          | 0.10  | 1            | 0.5                                  | 3                                 | TAC104K035P01          |
| 15  | 6            | 2.4                                  | 6                                 | TAC156K020P06          | 0.12  | 1            | 0.5                                  | 3                                 | TAC124K035P01          |
| 18  | 6            | 2.9                                  | 6                                 | TAC186K020P06          | 0.15  | 1            | 0.5                                  | 3                                 | TAC154K035P01          |
| 22  | 6            | 3.5                                  | 6                                 | TAC226K020P06          | 0.18  | 1            | 0.5                                  | 3                                 | TAC184K035P01          |
| 27  | 7            | 4.3                                  | 6                                 | TAC276K020P07          | 0.22  | 1            | 0.5                                  | 3                                 | TAC224K035P01          |
| 33  | 7            | 5.0                                  | 6                                 | TAC336K020P07          | 0.27  | 1            | 0.5                                  | 3                                 | TAC274K035P01          |
| 39  | 7            | 6.2                                  | 6                                 | TAC396K020P07          | 0.33  | 1            | 0.5                                  | 3                                 | TAC334K035P01          |
| 47  | 7            | 7.5                                  | 6                                 | TAC476K020P07          | 0.39  | 1            | 0.5                                  | 3                                 | TAC394K035P01          |
| 56  | 7            | 8.9                                  | 6                                 | TAC566K020P07          | 0.47  | 1            | 0.5                                  | 3                                 | TAC474K035P01          |
| 68  | 7            | 10.0                                 | 6                                 | TAC686K020P07          | 0.56  | 2            | 0.5                                  | 3                                 | TAC564K035P02          |
| 82  | 8            | 10.0                                 | 8                                 | TAC826K020P08          | 0.68  | 2            | 0.5                                  | 3                                 | TAC684K035P02          |
| 100   | 8            | 10.0                                 | 8                                 | TAC107K020P08          | 0.82  | 2            | 0.5                                  | 3                                 | TAC824K035P02          |
| <b>25 WVdc @ 85 °C<br/>17 WVdc @ 125 °C</b> |              |                                      |                                   |                        | 1.0   | 2            | 0.5                                  | 3                                 | TAC105K035P02          |
| 0.47  | 1            | 0.5                                  | 3                                 | TAC474K025P01          | 1.2   | 2            | 0.5                                  | 3                                 | TAC125K035P02          |
| 0.56  | 1            | 0.5                                  | 3                                 | TAC564K025P01          | 1.5   | 2            | 0.5                                  | 3                                 | TAC155K035P02          |
| 0.68  | 1            | 0.5                                  | 3                                 | TAC684K025P01          | 1.8   | 5            | 0.5                                  | 3                                 | TAC185K035P05          |
| 0.82  | 1            | 0.5                                  | 3                                 | TAC824K025P01          | 2.2   | 5            | 0.6                                  | 3                                 | TAC225K035P05          |
| 1.0   | 1            | 0.5                                  | 3                                 | TAC105K025P01          | 2.7   | 5            | 0.8                                  | 3                                 | TAC275K035P05          |
| 1.2   | 2            | 0.5                                  | 3                                 | TAC125K025P02          | 3.3   | 5            | 0.9                                  | 4                                 | TAC335K035P05          |
| 1.5   | 2            | 0.5                                  | 3                                 | TAC155K025P02          | 3.9   | 5            | 1.1                                  | 4                                 | TAC395K035P05          |
| 1.8   | 2            | 0.5                                  | 3                                 | TAC185K025P02          | 4.7   | 5            | 1.3                                  | 4                                 | TAC475K035P05          |
| 2.2   | 2            | 0.5                                  | 3                                 | TAC225K025P02          | 5.6   | 6            | 1.6                                  | 4                                 | TAC565K035P06          |
| 2.7   | 2            | 0.5                                  | 3                                 | TAC275K025P02          | 6.8   | 6            | 1.9                                  | 4                                 | TAC685K035P06          |
|   |              |                                      |                                   |                        | 8.2   | 6            | 2.3                                  | 4                                 | TAC825K035P06          |
|   |              |                                      |                                   |                        | 10  | 6            | 2.8                                  | 4                                 | TAC106K035P06          |

CDE may improve your order and shorten delivery by substituting tighter tolerance or higher voltage capacitors in the same case size.

# Type TAC Solid Tantalum Capacitors

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

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

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Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

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

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

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



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