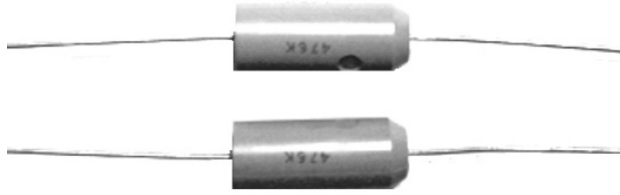


# Type TAC Solid Tantalum Capacitors

## 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

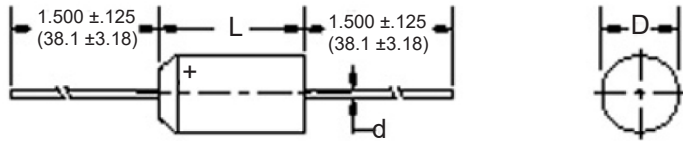
Capacitance Range	0.10 $\mu$ F to 330 $\mu$ F										
Capacitance Tolerance	$\pm$ 10% Standard ( $\pm$ 5% by special order)										
Rated Voltage	6 WVdc to 50 WVdc at 85 °C										
Operating Temperature Range	-55 °C to +125 °C (with proper derating)										
Reverse Voltage	15% of rated voltage @ 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	<table border="1"> <thead> <tr> <th>Case Code</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4500 per 12" Reel</td> </tr> <tr> <td>2</td> <td>4000 per 12" Reel</td> </tr> <tr> <td>5 &amp; 6</td> <td>2500 per 12" Reel</td> </tr> <tr> <td>7 &amp; 8</td> <td>500 per 12" Reel</td> </tr> </tbody> </table>	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
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										
<a href="#">RoHS Compliant</a>											

### Part Numbering System

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

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

Cap (µF)	Catalog Part Number	Case Code	Max DCL @ +25 °C (µA)	Max DF % @ +25 °C 120 Hz
<b>10 WVdc @ 85 °C 7 WVdc @ 125 °C</b>				
15	TAC156K010P05-F	5	1.2	6
18	TAC186K010P05-F	5	1.4	6
22	TAC226K010P05-F	5	1.5	6
27	TAC276K010P06-F	6	2.2	6
33	TAC336K010P06-F	6	2.6	6
39	TAC396K010P06-F	6	3.1	6
47	TAC476K010P06-F	6	3.8	6
56	TAC566K010P07-F	7	4.4	6
68	TAC686K010P07-F	7	5.0	6
82	TAC826K010P07-F	7	5.0	8
100	TAC107K010P07-F	7	8.0	8
120	TAC127K010P07-F	7	9.6	8
150	TAC157K010P07-F	7	10.0	8
180	TAC187K010P08-F	8	10.0	8
220	TAC227K010P08-F	8	10.0	8
<b>15 WVdc @ 85 °C 10 WVdc @ 125 °C</b>				
1.5	TAC155K015P01-F	1	0.5	4
1.8	TAC185K015P01-F	1	0.5	4
2.2	TAC225K015P01-F	1	0.5	4
2.7	TAC275K015P02-F	2	0.5	4
3.3	TAC335K015P02-F	2	0.5	4
3.9	TAC395K015P02-F	2	0.5	4
4.7	TAC475K015P02-F	2	0.6	4
5.6	TAC565K015P02-F	2	0.7	4
6.8	TAC685K015P02-F	2	0.8	6
8.2	TAC825K015P05-F	5	1.0	6
10	TAC106K015P05-F	5	1.2	6
12	TAC126K015P05-F	5	1.4	6
15	TAC156K015P05-F	5	1.5	6
18	TAC186K015P06-F	6	2.2	6
22	TAC226K015P06-F	6	2.6	6
27	TAC276K015P06-F	6	3.2	6
33	TAC336K015P06-F	6	4.0	6
39	TAC396K015P07-F	7	4.7	6
47	TAC476K015P07-F	7	5.0	6
56	TAC566K015P07-F	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 ( $\mu$ F)	Catalog Part Number	Case Code	Max DCL @ +25 °C ( $\mu$ A)	Max DF % @ +25 °C 120 Hz
<b>15 WVdc @ 85 °C</b> <b>10 WVdc @ 125 °C</b>				
68	TAC686K015P07-F	7	8.2	6
82	TAC826K015P07-F	7	9.8	8
100	TAC107K015P07-F	7	10.0	8
120	TAC127K015P08-F	8	10.0	8
150	TAC157K015P08-F	8	10.0	8
<b>20 WVdc @ 85 °C</b> <b>13 WVdc @ 125 °C</b>				
1	TAC105K020P01-F	1	0.5	4
1.2	TAC125K020P01-F	1	0.5	4
1.5	TAC155K020P01-F	1	0.5	4
1.8	TAC185K020P02-F	2	0.5	4
2.2	TAC225K020P02-F	2	0.5	4
2.7	TAC275K020P02-F	2	0.5	4
3.3	TAC335K020P02-F	2	0.5	4
3.9	TAC395K020P02-F	2	0.6	4
4.7	TAC475K020P02-F	2	0.8	4
5.6	TAC565K020P05-F	5	0.9	4
6.8	TAC685K020P05-F	5	1.1	6
8.2	TAC825K020P05-F	5	1.3	6
10	TAC106K020P05-F	5	1.6	6
12	TAC126K020P06-F	6	1.9	6
15	TAC156K020P06-F	6	2.4	6
18	TAC186K020P06-F	6	2.9	6
22	TAC226K020P06-F	6	3.5	6
27	TAC276K020P07-F	7	4.3	6
33	TAC336K020P07-F	7	5.0	6
39	TAC396K020P07-F	7	6.2	6
47	TAC476K020P07-F	7	7.5	6
56	TAC566K020P07-F	7	8.9	6
68	TAC686K020P07-F	7	10.0	6
82	TAC826K020P08-F	8	10.0	8
100	TAC107K020P08-F	8	10.0	8
<b>25 WVdc @ 85 °C</b> <b>17 WVdc @ 125 °C</b>				
0.47	TAC474K025P01-F	1	0.5	3
0.56	TAC564K025P01-F	1	0.5	3
0.68	TAC684K025P01-F	1	0.5	3
0.82	TAC824K025P01-F	1	0.5	3
1.0	TAC105K025P01-F	1	0.5	3
1.2	TAC125K025P02-F	2	0.5	3
1.5	TAC155K025P02-F	2	0.5	3
1.8	TAC185K025P02-F	2	0.5	3
2.2	TAC225K025P02-F	2	0.5	3
2.7	TAC275K025P02-F	2	0.5	3

Cap ( $\mu$ F)	Catalog Part Number	Case Code	Max DCL @ +25 °C ( $\mu$ A)	Max DF % @ +25 °C 120 Hz
<b>25 WVdc @ 85 °C</b> <b>17 WVdc @ 125 °C</b>				
3.3	TAC335K025P02-F	2	0.7	3
3.9	TAC395K025P05-F	5	0.8	3
4.7	TAC475K025P05-F	5	0.9	4
5.6	TAC565K025P05-F	5	1.1	4
6.8	TAC685K025P05-F	5	1.4	4
8.2	TAC825K025P05-F	5	1.5	4
10	TAC106K025P05-F	5	1.5	4
12	TAC126K025P06-F	6	2.4	4
15	TAC156K025P06-F	6	3.0	4
18	TAC186K025P07-F	7	3.6	6
22	TAC226K025P07-F	7	4.4	6
27	TAC276K025P07-F	7	5.4	6
33	TAC336K025P07-F	7	6.6	6
39	TAC396K025P07-F	7	7.8	6
47	TAC476K025P07-F	7	9.4	6
56	TAC566K025P08-F	8	10	6
68	TAC686K025P08-F	8	10	6
<b>35 WVdc @ 85 °C</b> <b>23 WVdc @ 125 °C</b>				
0.10	TAC104K035P01-F	1	0.5	3
0.12	TAC124K035P01-F	1	0.5	3
0.15	TAC154K035P01-F	1	0.5	3
0.18	TAC184K035P01-F	1	0.5	3
0.22	TAC224K035P01-F	1	0.5	3
0.27	TAC274K035P01-F	1	0.5	3
0.33	TAC334K035P01-F	1	0.5	3
0.39	TAC394K035P01-F	1	0.5	3
0.47	TAC474K035P01-F	1	0.5	3
0.56	TAC564K035P02-F	2	0.5	3
0.68	TAC684K035P02-F	2	0.5	3
0.82	TAC824K035P02-F	2	0.5	3
1.0	TAC105K035P02-F	2	0.5	3
1.2	TAC125K035P02-F	2	0.5	3
1.5	TAC155K035P02-F	2	0.5	3
1.8	TAC185K035P05-F	5	0.5	3
2.2	TAC225K035P05-F	5	0.6	3
2.7	TAC275K035P05-F	5	0.8	3
3.3	TAC335K035P05-F	5	0.9	4
3.9	TAC395K035P05-F	5	1.1	4
4.7	TAC475K035P05-F	5	1.3	4
5.6	TAC565K035P06-F	6	1.6	4
6.8	TAC685K035P06-F	6	1.9	4
8.2	TAC825K035P06-F	6	2.3	4
10	TAC106K035P06-F	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 ( $\mu$ F)	Catalog Part Number	Case Code	Max DCL @ +25 °C ( $\mu$ A)	Max DF % @ +25 °C 120 Hz
<b>35 WVdc @ 85 °C</b> <b>23 WVdc @ 125 °C</b>				
12	TAC126K035P07-F	7	3.3	4
15	TAC156K035P07-F	7	4.2	6
18	TAC186K035P07-F	7	5.0	6
22	TAC226K035P07-F	7	6.2	6
27	TAC276K035P07-F	7	7.5	6
33	TAC336K035P07-F	7	9.2	6
39	TAC396K035P08-F	8	10	6
47	TAC476K035P08-F	8	10	6
<b>50 WVdc @ 85 °C</b> <b>33 WVdc @ 125 °C</b>				
0.10	TAC104K050P01-F	1	0.5	3
0.12	TAC124K050P01-F	1	0.5	3
0.15	TAC154K050P01-F	1	0.5	3
0.18	TAC184K050P01-F	1	0.5	3
0.22	TAC224K050P01-F	1	0.5	3
0.27	TAC274K050P01-F	1	0.5	3
0.33	TAC334K050P02-F	2	0.5	3
0.39	TAC394K050P02-F	2	0.5	3
0.47	TAC474K050P02-F	2	0.5	3
0.56	TAC564K050P02-F	2	0.5	3

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

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

**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.