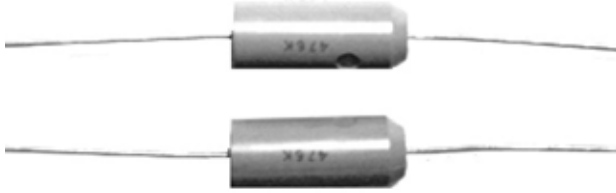


## Molded, Axial Lead, Solid Tantalum Capacitors



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 5% of rated voltage @ 85 °C 1% of rated voltage @ 125 °C
<b>Capacitance Change Maximum:</b>	-10% @ -55 °C +10% @ +85 °C +12% @ +125 °C

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

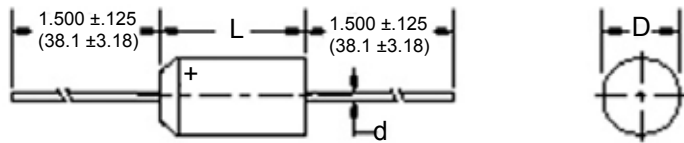
Case Code	Quantity
1	4500 per 12" Reel
2	4000 per 12" Reel
5 & 6	2500 per 12" Reel
7 & 8	500 per 12" Reel

### Part Numbering System

TAC	107	K	006	P	0	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 ( $\mu$ F)	Catalog Part Number	Case Code	Max DCL @ +25 °C ( $\mu$ A)	Max DF % @ +25 °C 120 Hz
<b>6 WVdc @ 85 °C 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 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 ( $\mu$ F)	Catalog Part Number	Case Code	Max DCL @ +25 °C ( $\mu$ A)	Max DF % @ +25 °C 120 Hz
<b>10 WVdc @ 85 °C 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 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 ( $\mu$ F)	Catalog Part Number	Case Code	Max DCL @ +25 °C ( $\mu$ A)	Max DF % @ +25 °C 120 Hz	Cap ( $\mu$ F)	Catalog Part Number	Case Code	Max DCL @ +25 °C ( $\mu$ A)	Max DF % @ +25 °C 120 Hz
15 WVdc @ 85 °C 10 WVdc @ 125 °C					25 WVdc @ 85 °C 17 WVdc @ 125 °C				
68	TAC686K015P07	7	8.2	6	3.3	TAC335K025P02	2	0.7	3
82	TAC826K015P07	7	9.8	8	3.9	TAC395K025P05	5	0.8	3
100	TAC107K015P07	7	10.0	8	4.7	TAC475K025P05	5	0.9	4
120	TAC127K015P08	8	10.0	8	5.6	TAC565K025P05	5	1.1	4
150	TAC157K015P08	8	10.0	8	6.8	TAC685K025P05	5	1.4	4
20 WVdc @ 85 °C 13 WVdc @ 125 °C					8.2	TAC825K025P05	5	1.5	4
1	TAC105K020P01	1	0.5	4	10	TAC106K025P05	5	1.5	4
1.2	TAC125K020P01	1	0.5	4	12	TAC126K025P06	6	2.4	4
1.5	TAC155K020P01	1	0.5	4	15	TAC156K025P06	6	3.0	4
1.8	TAC185K020P02	2	0.5	4	18	TAC186K025P07	7	3.6	6
2.2	TAC225K020P02	2	0.5	4	22	TAC226K025P07	7	4.4	6
2.7	TAC275K020P02	2	0.5	4	27	TAC276K025P07	7	5.4	6
3.3	TAC335K020P02	2	0.5	4	33	TAC336K025P07	7	6.6	6
3.9	TAC395K020P02	2	0.6	4	39	TAC396K025P07	7	7.8	6
4.7	TAC475K020P02	2	0.8	4	47	TAC476K025P07	7	9.4	6
5.6	TAC565K020P05	5	0.9	4	56	TAC566K025P08	8	10	6
6.8	TAC685K020P05	5	1.1	6	68	TAC686K025P08	8	10	6
8.2	TAC825K020P05	5	1.3	6	35 WVdc @ 85 °C 23 WVdc @ 125 °C				
10	TAC106K020P05	5	1.6	6	0.10	TAC104K035P01	1	0.5	3
12	TAC126K020P06	6	1.9	6	0.12	TAC124K035P01	1	0.5	3
15	TAC156K020P06	6	2.4	6	0.15	TAC154K035P01	1	0.5	3
18	TAC186K020P06	6	2.9	6	0.18	TAC184K035P01	1	0.5	3
22	TAC226K020P06	6	3.5	6	0.22	TAC224K035P01	1	0.5	3
27	TAC276K020P07	7	4.3	6	0.27	TAC274K035P01	1	0.5	3
33	TAC336K020P07	7	5.0	6	0.33	TAC334K035P01	1	0.5	3
39	TAC396K020P07	7	6.2	6	0.39	TAC394K035P01	1	0.5	3
47	TAC476K020P07	7	7.5	6	0.47	TAC474K035P01	1	0.5	3
56	TAC566K020P07	7	8.9	6	0.56	TAC564K035P02	2	0.5	3
68	TAC686K020P07	7	10.0	6	0.68	TAC684K035P02	2	0.5	3
82	TAC826K020P08	8	10.0	8	0.82	TAC824K035P02	2	0.5	3
100	TAC107K020P08	8	10.0	8	1.0	TAC105K035P02	2	0.5	3
25 WVdc @ 85 °C 17 WVdc @ 125 °C					1.2	TAC125K035P02	2	0.5	3
0.47	TAC474K025P01	1	0.5	3	1.5	TAC155K035P02	2	0.5	3
0.56	TAC564K025P01	1	0.5	3	1.8	TAC185K035P05	5	0.5	3
0.68	TAC684K025P01	1	0.5	3	2.2	TAC225K035P05	5	0.6	3
0.82	TAC824K025P01	1	0.5	3	2.7	TAC275K035P05	5	0.8	3
1.0	TAC105K025P01	1	0.5	3	3.3	TAC335K035P05	5	0.9	4
1.2	TAC125K025P02	2	0.5	3	3.9	TAC395K035P05	5	1.1	4
1.5	TAC155K025P02	2	0.5	3	4.7	TAC475K035P05	5	1.3	4
1.8	TAC185K025P02	2	0.5	3	5.6	TAC565K035P06	6	1.6	4
2.2	TAC225K025P02	2	0.5	3	6.8	TAC685K035P06	6	1.9	4
2.7	TAC275K025P02	2	0.5	3	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 ( $\mu$ F)	Catalog Part Number	Case Code	Max DCL @ +25 °C ( $\mu$ A)	Max DF % @ +25 °C 120 Hz
35 WVdc @ 85 °C 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 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 ( $\mu$ F)	Catalog Part Number	Case Code	Max DCL @ +25 °C ( $\mu$ A)	Max DF % @ +25 °C 120 Hz
50 WVdc @ 85 °C 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

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