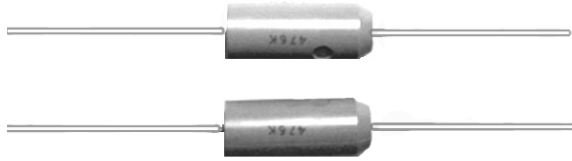


Type TAC Solid Tantalum Capacitors

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 Vibration

Specifications

Capacitance Range: 0.10 μF to 330 μF
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 $+125^\circ\text{C}$ (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
 $+10\%$ @ $+85^\circ\text{C}$
 $+12\%$ @ $+125^\circ\text{C}$

Reel Packaging per EIA- RS-296:

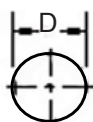
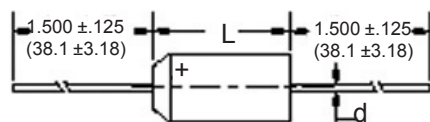
Case Code	Quantity
1	4500 per 12" Reel
2	4000 per 12" Reel
5 & 6	2500 per 12" Reel
7 & 8	500 per 12" Reel

Part Numbering System

TAC	107	K	006	P	0	7
Type	Capacitance	Tolerance	Voltage	Polar	Molded Case	Case Code
TAC	394 = 0.39 μF	J = $\pm 5\%$	006 = 6 Vdc	P = Polar	0	1
	105 = 1.0 μF	K = $\pm 10\%$	010 = 10 Vdc			2
	225 = 2.2 μF		015 = 15 Vdc			5
	186 = 18 μF		020 = 20 Vdc			6
	107 = 100 μF		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 (μ F)	Case Code	Max DCL @ +25 °C (μ A)	Max DF % @ +25 °C 120 Hz	Catalog Part Number	Cap (μ F)	Case Code	Max DCL @ +25 °C (μ A)	Max DF % @ +25 °C 120 Hz	Catalog Part Number
6 WVdc @ 85 °C 4 WVdc @ 125 °C					10 WVdc @ 85 °C 7 WVdc @ 125 °C				
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	15 WVdc @ 85 °C 10 WVdc @ 125 °C				
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
10 WVdc @ 85 °C 7 WVdc @ 125 °C					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 (μ F)	Case Code	Max DCL @ +25 °C (μ A)	Max DF % @ +25 °C 120 Hz	Catalog Part Number	Cap (μ F)	Case Code	Max DCL @ +25 °C (μ A)	Max DF % @ +25 °C 120 Hz	Catalog Part Number
15 WVdc @ 85 °C 10 WVdc @ 125 °C					25 WVdc @ 85 °C 17 WVdc @ 125 °C				
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
20 WVdc @ 85 °C 13 WVdc @ 125 °C					8.2	5	1.5	4	TAC825K025P05
1	1	0.5	4	TAC105K020P01	10	5	1.5	4	TAC106K025P05
1.2	1	0.5	4	TAC125K020P01	12	6	2.4	4	TAC126K025P06
1.5	1	0.5	4	TAC155K020P01	15	6	3.0	4	TAC156K025P06
1.8	2	0.5	4	TAC185K020P02	18	7	3.6	6	TAC186K025P07
2.2	2	0.5	4	TAC225K020P02	22	7	4.4	6	TAC226K025P07
2.7	2	0.5	4	TAC275K020P02	27	7	5.4	6	TAC276K025P07
3.3	2	0.5	4	TAC335K020P02	33	7	6.6	6	TAC336K025P07
3.9	2	0.6	4	TAC395K020P02	39	7	7.8	6	TAC396K025P07
4.7	2	0.8	4	TAC475K020P02	47	7	9.4	6	TAC476K025P07
5.6	5	0.9	4	TAC565K020P05	56	8	10	6	TAC566K025P08
6.8	5	1.1	6	TAC685K020P05	68	8	10	6	TAC686K025P08
8.2	5	1.3	6	TAC825K020P05	35 WVdc @ 85 °C 23 WVdc @ 125 °C				
10	5	1.6	6	TAC106K020P05	0.10	1	0.5	3	TAC104K035P01
12	6	1.9	6	TAC126K020P06	0.12	1	0.5	3	TAC124K035P01
15	6	2.4	6	TAC156K020P06	0.15	1	0.5	3	TAC154K035P01
18	6	2.9	6	TAC186K020P06	0.18	1	0.5	3	TAC184K035P01
22	6	3.5	6	TAC226K020P06	0.22	1	0.5	3	TAC224K035P01
27	7	4.3	6	TAC276K020P07	0.27	1	0.5	3	TAC274K035P01
33	7	5.0	6	TAC336K020P07	0.33	1	0.5	3	TAC334K035P01
39	7	6.2	6	TAC396K020P07	0.39	1	0.5	3	TAC394K035P01
47	7	7.5	6	TAC476K020P07	0.47	1	0.5	3	TAC474K035P01
56	7	8.9	6	TAC566K020P07	0.56	2	0.5	3	TAC564K035P02
68	7	10.0	6	TAC686K020P07	0.68	2	0.5	3	TAC684K035P02
82	8	10.0	8	TAC826K020P08	0.82	2	0.5	3	TAC824K035P02
100	8	10.0	8	TAC107K020P08	1.0	2	0.5	3	TAC105K035P02
25 WVdc @ 85 °C 17 WVdc @ 125 °C					1.2	2	0.5	3	TAC125K035P02
0.47	1	0.5	3	TAC474K025P01	1.5	2	0.5	3	TAC155K035P02
0.56	1	0.5	3	TAC564K025P01	1.8	5	0.5	3	TAC185K035P05
0.68	1	0.5	3	TAC684K025P01	2.2	5	0.6	3	TAC225K035P05
0.82	1	0.5	3	TAC824K025P01	2.7	5	0.8	3	TAC275K035P05
1.0	1	0.5	3	TAC105K025P01	3.3	5	0.9	4	TAC335K035P05
1.2	2	0.5	3	TAC125K025P02	3.9	5	1.1	4	TAC395K035P05
1.5	2	0.5	3	TAC155K025P02	4.7	5	1.3	4	TAC475K035P05
1.8	2	0.5	3	TAC185K025P02	5.6	6	1.6	4	TAC565K035P06
2.2	2	0.5	3	TAC225K025P02	6.8	6	1.9	4	TAC685K035P06
2.7	2	0.5	3	TAC275K025P02	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 (μ F)	Case Code	Max DCL @ +25 °C (μ A)	Max DF % @ +25 °C 120 Hz	Catalog Part Number
35 WVdc @ 85 °C 23 WVdc @ 125 °C				
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
50 WVdc @ 85 °C 33 WVdc @ 125 °C				
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 (μ F)	Case Code	Max DCL @ +25 °C (μ A)	Max DF % @ +25 °C 120 Hz	Catalog Part Number
50 WVdc @ 85 °C 33 WVdc @ 125 °C				
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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