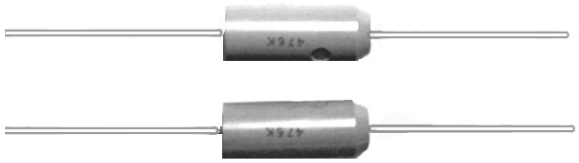
Type TAC Solid Tantalum Capacitors

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 Indentification
- Highest CV per Case Size
- Miniature Sizes
- Highly Resistant to Shock and Vibraton

Specifications

Capacitance Range: 0.10 µF to 330 µF
Voltage Range: 6 WVdc to 50 WVdc at 85 ºC
Tolerance: ±10% Standard (±5% by special order)
Operating Temperature Range: –55 ºC to +125 ºC (with proper derating)

Reverse Voltage:
15% of rated voltage @ 25 ºC
5% of rated voltage @ 85 ºC
1% of rated voltage @ 125 ºC

Capacitance Change Maximum:
–10% @ –55 ºC
+10% @ +85 ºC
+12% @ +125 ºC

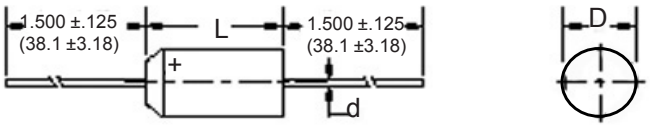
Reel Packaging per EIA- RS-296:

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** = ±5%	**006** = 6 Vdc	**P** = Polar	**0**	**1**
	105 = 1.0 µF	**K** = ±10%	**010** = 10 Vdc			**2**
	225 = 2.2 µF		**015** = 15 dc			**5**
	186 = 18 µF		**020** = 20 Vdc			**6**
	107 = 100 µF		**025** = 25 Vdc			**7**
			035 = 35 Vdc			**8**
			050 = 50 Vdc			

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

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

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

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Cap (µF)	Case Code	Max DCL @ +25 ºC (µA)	Max DF % @ +25 ºC 120 Hz	Catalog Part Number
35 WVdc @ 85 ºC 23 WVdc @ 125 ºC				
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 ºC 33 WVdc @ 125 ºC				
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 ºC (µA)	Max DF % @ +25 ºC 120 Hz	Catalog Part Number
50 WVdc @ 85 ºC 33 WVdc @ 125 ºC				
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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