

Type TAC Solid Tantalum Capacitors

MALLORY



- Precision Molded
- Flame Retardant
- Resistant to Shock & Vibration
- Tapered for Polarity Identification
- Taped and Reeled
- Highest CV per Case Size
- Long Shelf Life
- Miniature Sizes

GENERAL SPECIFICATIONS

Operating Temperature:
-55°C to +125°C
(With proper derating)

Voltage Range:
6 to 50 WVDC @ 85°C

Reverse Voltage (Non-continuous):
15% of rated voltage @ 25°C
5% of rated voltage @ 85°C
1% of rated voltage @ 125°C

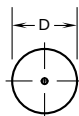
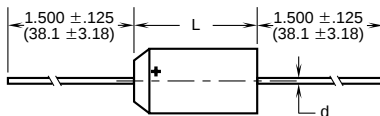
Capacitance Range:
.10 μ F to 330 μ F

Capacitance Tolerance:
 $\pm 10\%$ ($\pm 5\%$ by special order)

Capacitance Change Maximum:
-10% @ -55°C
+10% @ +85°C
+12% @ +125°C

Reel Packaged 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



Dimensions - 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)

Cap (μ F)	Case Code	Max DCL @ +25°C (μ A)	Max D.F. % @ +25°C 120 Hz	Catalog Number
6 WVDC @ 85°C 4 WVDC @ 125°C				
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	8	TAC227K006P07
270	8	10	8	TAC277K006P08
330	8	10	8	TAC337K006P08

Cap (μ F)	Case Code	Max DCL @ +25°C (μ A)	Max D.F. % @ +25°C 120 Hz	Catalog Number
10 WVDC @ 85°C 7 WVDC @ 125°C				
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
15	5	1.2	6	TAC156K010P05
18	5	1.4	6	TAC186K010P05
22	5	1.5	6	TAC226K010P05

Cap (μ F)	Case Code	Max DCL @ +25°C (μ A)	Max D.F. % @ +25°C 120 Hz	Catalog Number
10 WVDC @ 85°C 7 WVDC @ 125°C				
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

Cap (μ F)	Case Code	Max DCL @ +25°C (μ A)	Max D.F. % @ +25°C 120 Hz	Catalog Number
15 WVDC @ 85°C 10 WVDC @ 125°C				
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
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

Cap (μ F)	Case Code	Max DCL @ +25°C (μ A)	Max D.F. % @ +25°C 120 Hz	Catalog Number
20 WVDC @ 85°C 13 WVDC @ 125°C				
1.0	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

Cap (μ F)	Case Code	Max DCL @ +25°C (μ A)	Max D.F. % @ +25°C 120 Hz	Catalog Number
25 WVDC @ 85°C 17 WVDC @ 125°C				
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
3.3	2	0.7	3	TAC335K025P02
3.9	5	0.8	3	TAC395K025P05

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

Type TAC Solid Tantalum Capacitors

MALLORY

Cap (μ F)	Case Code	Max DCL @ +25°C (μ A)	Max D.F. % @+25°C 120 Hz	Catalog Number
25 WVDC @ 85°C 17 WVDC @ 125°C				
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	10.0	6	TAC566K025P08
68	8	10.0	6	TAC686K025P08
35 WVDC @ 85°C 23 WVDC @ 125°C				
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

Cap (μ F)	Case Code	Max DCL @ +25°C (μ A)	Max D.F. % @+25°C 120 Hz	Catalog Number
35 WVDC @ 85°C 23 WVDC @ 125°C				
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
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	10.0	6	TAC396K035P08
47	8	10.0	6	TAC476K035P08

Cap (μ F)	Case Code	Max DCL @ +25°C (μ A)	Max D.F. % @+25°C 120 Hz	Catalog Number
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
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

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