### **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 Indentification
- 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:** ±10% Standard (±5% by special order) **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:** 

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

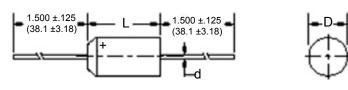
### **Part Numbering System -**

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

		1	T	<u> </u>
			Max	Max
	Catalog	Case	DCL	DF %
Сар	Part Number	Code	@ +25 °C	@ +25 °C
(μ <b>F</b> )			(μΑ)	120 Hz
	6 WVdd	@ 85 °	C	
	4 WVdc	@ 125	°C	
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
	10 WVd	_		
	7 WVdc	@ 125	°C	
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	8.0	6
12	TAC126K010P05	5	1.0	6

			Max	Max		
	Catalog	Case	DCL	DF %		
Сар	Part Number	Code	@ +25 °C	@ +25 °C		
(µF)			(µA)	120 Hz		
	10 WVdc @ 85 °C					
	7 WVdc @ 125 °C					
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		
	15 WVd	с @ 85	°C			
	10 WVdd	@ 125	5 °C			
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	8.0	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.

# **Ratings**

			Max	Max		
	Catalog	Case	DCL	DF %		
Сар	Part Number	Code	@ +25 °C	@ +25 °C		
	T art Number	Code		_		
(µF)	45 \\0/4	10 @ OF I	(µA)	120 Hz		
15 WVdc @ 85 °C 10 WVdc @ 125 °C						
68	TAC686K015P07	7	8.2	6		
82	TAC826K015P07	7	9.8	8		
100	TAC107K015P07	7	10.0	8		
120	TAC127K015P08	8	10.0	8		
150	TAC157K015P08	8	10.0	8		
	20 WV	lc @ 85 °	°C			
	13 WVd	c @ 125	°C			
1	TAC105K020P01	1	0.5	4		
1.2	TAC125K020P01	1	0.5	4		
1.5	TAC155K020P01	1	0.5	4		
1.8	TAC185K020P02	2	0.5	4		
2.2	TAC225K020P02	2	0.5	4		
2.7	TAC275K020P02	2	0.5	4		
3.3	TAC335K020P02	2	0.5	4		
3.9	TAC395K020P02	2	0.6	4		
4.7	TAC475K020P02	2	0.8	4		
5.6	TAC565K020P05	5	0.9	4		
6.8	TAC685K020P05	5	1.1	6		
8.2	TAC825K020P05	5	1.3	6		
10	TAC106K020P05	5	1.6	6		
12	TAC126K020P06	6	1.9	6		
15	TAC156K020P06	6	2.4	6		
18	TAC186K020P06	6	2.9	6		
22	TAC226K020P06	6	3.5	6		
27	TAC276K020P07	7	4.3	6		
33	TAC336K020P07	7	5.0	6		
39	TAC396K020P07	7	6.2	6		
47	TAC476K020P07	7	7.5	6		
56	TAC566K020P07	7	8.9	6		
68	TAC686K020P07	7	10.0	6		
82	TAC826K020P08	8	10.0	8		
100	TAC107K020P08	8	10.0	8		
	25 WV	lc @ 85 '	°C			
	17 WVd	c @ 125				
0.47	TAC474K025P01	1	0.5	3		
0.56	TAC564K025P01	1	0.5	3		
0.68	TAC684K025P01	1	0.5	3		
0.82	TAC824K025P01	1	0.5	3		
1.0	TAC105K025P01	1	0.5	3		
1.2	TAC125K025P02	2	0.5	3		
1.5	TAC155K025P02	2	0.5	3		
1.8	TAC185K025P02	2	0.5	3		
2.2	TAC225K025P02	2	0.5	3		
2.7	TAC275K025P02	2	0.5	3		

		1	I				
			Max	Max			
	Catalog	Case	DCL	DF %			
Cap	Part Number	Code	@ +25 °C	@ +25 °C			
(µF)			(µA)	120 Hz			
	25 WVdc @ 85 °C						
	17 WVdc @ 125 °C						
3.3	TAC335K025P02	2	0.7	3			
3.9	TAC395K025P05	5	8.0	3			
4.7	TAC475K025P05	5	0.9	4			
5.6	TAC565K025P05	5	1.1	4			
6.8	TAC685K025P05	5	1.4	4			
8.2	TAC825K025P05	5	1.5	4			
10	TAC106K025P05	5	1.5	4			
12	TAC126K025P06	6	2.4	4			
15	TAC156K025P06	6	3.0	4			
18	TAC186K025P07	7	3.6	6			
22	TAC226K025P07	7	4.4	6			
27	TAC276K025P07	7	5.4	6			
33	TAC336K025P07	7	6.6	6			
39	TAC396K025P07	7	7.8	6			
47	TAC476K025P07	7	9.4	6			
56	TAC566K025P08	8	10	6			
68	TAC686K025P08	8	10	6			
	35 WVdd	_					
0.40	23 WVdc						
0.10	TAC104K035P01	1	0.5	3			
0.12	TAC124K035P01	1	0.5	3			
0.15	TAC154K035P01	1	0.5	3			
0.18	TAC184K035P01	1	0.5	3			
0.22	TAC224K035P01	1	0.5	3			
0.27	TAC274K035P01	1	0.5	3			
0.33	TAC334K035P01	1	0.5	3			
0.39	TAC394K035P01	1	0.5	3			
0.47	TAC474K035P01	1	0.5	3			
0.56	TAC564K035P02	2	0.5	3			
0.68	TAC684K035P02	2	0.5	3			
0.82	TAC824K035P02	2	0.5	3			
1.0	TAC105K035P02	2	0.5	3			
1.2	TAC125K035P02	2	0.5	3			
1.5	TAC155K035P02		0.5	3			
1.8	TAC185K035P05	5	0.5	3			
2.2	TAC225K035P05	5	0.6	3			
2.7	TAC275K035P05	5 5	0.8	3 4			
3.3	TAC335K035P05	5 5	0.9				
3.9	TAC395K035P05	5	1.1	4			
4.7	TAC475K035P05	5	1.3	4			
5.6	TAC565K035P06	6	1.6	4			
6.8	TAC685K035P06	6	1.9	4			
8.2	TAC825K035P06	6	2.3	4			
10	TAC106K035P06	6	2.8	4			

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## **Type TAC Solid Tantalum Capacitors**

#### Ratings

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			Max	Max			
	Catalog	Case	DCL	DF %			
Сар	Part Number	Code	@ +25 °C	@ +25 °C			
(µF)			(µA)	120 Hz			
	35 WVd	c @ 85 °	C				
	23 WVdd	@ 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 WVd	c @ 85 °	C				
	33 WVdd	@ 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 (µF)	Catalog Part Number	Case Code	Max DCL @ +25 °C (μA)	Max DF % @ +25 °C 120 Hz
	50 WVdd	_		
	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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