### 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

Capacitance Range	0.10 μF to 330 μF					
Capacitance Tolerance	±10% Standard (±5% by special order)					
Rated Voltage	6 WVdc to 50 WVdc at 85 ℃					
Operating Temperature Range	–55 °C to +125 °C (with proper derating)					
Reverse Voltage	15% of rated voltage @ 25 ℃ 5% of rated voltage @ 85 ℃ 1% of rated voltage @ 125 ℃					
Capacitance Change Maximum	-10% @ -55 ℃ +10% @ +85 ℃ +12% @ +125 ℃					
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					
RoHS Compliant						

### **Part Numbering System**

<b>TAC</b>	<b>107</b> 	<b>K</b> 	<b>006</b>	P 	0 Molded	8 Case	-F RoHS
Туре	Capacitance	Tolerance	Voltage	Polar	Case	Code	Compliant
TAC	<b>394</b> = 0.39 µF	<b>J</b> = ±5%	<b>006</b> = 6 Vdc	<b>P =</b> Polar	0	1	
	<b>105</b> = 1.0 μF	<b>K</b> = ±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				

## Specifications

# **Type TAC Solid Tantalum Capacitors**

# L 1.500 ±.125 (38.1 ±3.18)

**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	I		Max	Max				Max	Max	
	Catalog	Case	DCL	DF %		Catalog	Case	DCL	DF %	
Сар	Part Number	Code	@ +25 °C	@ +25 °C	Сар	Part Number	Code	@ +25 °C	@ +25 °C	
(µF)			(µA)	120 Hz	(µF)			(μΑ)	120 Hz	
6 WVdc @ 85 °C						10 WVdc @ 85 °C				
4 WVdc @ 125 °C 7 WVdc @ 125 °C										
3.3	TAC335K006P01-F	1	0.5	4	15	TAC156K010P05	5	1.2	6	
3.9	TAC395K006P01-F	1	0.5	4	18	TAC186K010P05	5	1.4	6	
4.7	TAC475K006P01-F	1	0.5	4	22	TAC226K010P05	5	1.5	6	
5.6	TAC565K006P02-F	2	0.5	4	27	TAC276K010P06	6	2.2	6	
6.8	TAC685K006P02-F	2	0.5	6	33	TAC336K010P06	6	2.6	6	
8.2	TAC825K006P02-F	2	0.5	6	39	TAC396K010P06	6	3.1	6	
10	TAC106K006P02-F	2	0.5	6	47	TAC476K010P06	6	3.8	6	
12	TAC126K006P02-F	2	0.6	6	56	TAC566K010P07	7	4.4	6	
15	TAC156K006P02-F	2	0.7	6	68	TAC686K010P07	7	5.0	6	
18	TAC186K006P05-F	5	0.9	6	82	TAC826K010P07	7	5.0	8	
22	TAC226K006P05-F	5	1.1	6	100	TAC107K010P07	7	8.0	8	
27	TAC276K006P05-F	5	1.3	6	120	TAC127K010P07	7	9.6	8	
33	TAC336K006P05-F	5	1.5	6	150	TAC157K010P07	7	10.0	8	
39 <sup>-</sup>	TAC396K006P06-F	6	1.9	6	180	TAC187K010P08	8	10.0	8	
47	TAC476K006P06	6	2.3	6	220	TAC227K010P08	8	10.0	8	
56	TAC566K006P06	6	2.7	6		15 WVd	c @ 85	°C		
68	TAC686K006P06	6	3.3	6		10 WVdo	c @ 12	5 °C		
82	TAC826K006P07	7	3.9	8	1.5	TAC155K015P01-F	1	0.5	4	
100	TAC107K006P07	7	4.8	8	1.8	TAC185K015P01-F	1	0.5	4	
120	TAC127K006P07	7	5.0	8	2.2	TAC225K015P01-F	1	0.5	4	
150	TAC157K006P07	7	5.0	8	2.7	TAC275K015P02	2	0.5	4	
180	TAC187K006P07	7	8.6	8	3.3	TAC335K015P02	2	0.5	4	
220	TAC227K006P07	7	10.0	8	3.9	TAC395K015P02	2	0.5	4	
270	TAC277K006P08	8	10.0	8	4.7	TAC475K015P02	2	0.6	4	
330	TAC337K006P08	8	10.0	8	5.6	TAC565K015P02	2	0.7	4	
	10 WVdo	c @ 85 '	Oa		6.8	TAC685K015P02	2	0.8	6	
	7 WVdc	@ 125 9	O		8.2	TAC825K015P05	5	1.0	6	
2.2	TAC225K010P01	1	0.5	4	10	TAC106K015P05	5	1.2	6	
2.7	TAC275K010P01	1	0.5	4	12	TAC126K015P05	5	1.4	6	
3.3	TAC335K010P01	1	0.5	4	15	TAC156K015P05	5	1.5	6	
3.9	TAC395K010P02	2	0.5	4	18	TAC186K015P06	6	2.2	6	
4.7	TAC475K010P02	2	0.5	4	22	TAC226K015P06	6	2.6	6	
5.6	TAC565K010P02	2	0.5	4	27	TAC276K015P06	6	3.2	6	
6.8	TAC685K010P02	2	0.5	6	33	TAC336K015P06	6	4.0	6	
8.2	TAC825K010P02	2	0.7	6	39	TAC396K015P07	7	4.7	6	
10	TAC106K010P02	2	0.8	6	47	TAC476K015P07	7	5.0	6	
12	TAC126K010P05	5	1.0	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	Мах
-	Catalog	Case	DCL	DF %
Сар	Part Number	Code	@ +25 °C	@ +25 °C
(µF)			(µA)	120 Hz
		lc @ 85 ' c @ 125		
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
100		lc @ 85 '		
		c @ 125		
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
		lc @ 85 ' c @ 125		
0.47	TAC474K025P01	1	0.5	3
0.47	TAC564K025P01	1	0.5	3
0.50	TAC504K025P01 TAC684K025P01	1	0.5	3
0.82	TAC824K025P01	1	0.5	3
1.0	TAC824K025P01 TAC105K025P01	1	0.5	3
1.0	TAC105K025P01	2	0.5	3
1.2	TAC125K025P02	2	0.5	3
1.8	TAC135K025P02	2	0.5	3
1.0	1701031023602			
2.2	TAC225K025P02	2	0.5	3

			Max	Max				
			Max	Max				
	Catalog	Case	DCL	DF %				
Сар	Part Number	Code	@ +25 °C	@ +25 °C				
(µF)			(µA)	120 Hz				
25 WVdc @ 85 °C								
	17 WVdc							
3.3	TAC335K025P02	2	0.7	3				
3.9	TAC395K025P05	5	0.8	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	-						
0.10	23 WVdc TAC104K035P01	1	0.5	3				
0.10	TAC124K035P01	1	0.5	3				
0.12	TAC124K035P01	1	0.5	3				
0.15	TAC184K035P01	1	0.5	3				
0.18	TAC224K035P01	1	0.5	3				
0.22	TAC274K035P01	1	0.5	3				
0.27	TAC334K035P01	1	0.5	3				
0.39	TAC394K035P01	1	0.5	3				
0.39	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				
1.0	TAC125K035P02	2	0.5	3				
1.5	TAC155K035P02	2	0.5	3				
1.8	TAC185K035P05	5	0.5	3				
2.2	TAC225K035P05	5	0.6	3				
2.2	TAC275K035P05	5	0.8	3				
3.3	TAC335K035P05	5	0.8	4				
3.9	TAC395K035P05	5	1.1	4				
4.7	TAC475K035P05	5	1.1	4				
4.7 5.6	TAC475K035P05	5 6	1.5	4				
5.6 6.8	TAC685K035P06	6	1.0	4				
8.2	TAC825K035P06	6	2.3	4				
8.2 10	TAC825K035P06 TAC106K035P06	6		4				
10	1401000030200	0	2.8	4				

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#### Ratings

			Max	Мах				Max	Мах
	Catalog	Case	DCL	DF %		Catalog	Case	DCL	DF %
Сар	Part Number	Code	@ +25 °C	@ +25 °C	Сар	Part Number	Code	@ +25 °C	@ +25 °C
(µF)			(µA)	120 Hz	(µF)			(μΑ)	120 Hz
35 WVdc @ 85 °C						50 WVdd	c @ 85 °	С	
	23 WVdc	@ 125	°C			33 WVdc	@ 125 9	O,	
12	TAC126K035P07	7	3.3	4	0.68	TAC684K050P02	2	0.5	3
15	TAC156K035P07	7	4.2	6	0.82	TAC824K050P02	2	0.5	3
18	TAC186K035P07	7	5.0	6	1.0	TAC105K050P02	2	0.5	3
22	TAC226K035P07	7	6.2	6	1.2	TAC125K050P05	5	0.5	3
27	TAC276K035P07	7	7.5	6	1.5	TAC155K050P05	5	0.6	4
33	TAC336K035P07	7	9.2	6	1.8	TAC185K050P05	5	0.7	4
39	TAC396K035P08	8	10	6	2.2	TAC225K050P05	5	0.9	4
47	TAC476K035P08	8	10	6	2.7	TAC275K050P06	6	1.1	4
	50 WVd	c @ 85 °	C O		3.3	TAC335K050P06	6	1.3	4
	33 WVdc	@ 125	°C		3.9	TAC395K050P06	6	1.6	4
0.10	TAC104K050P01	1	0.5	3	4.7	TAC475K050P06	6	1.9	4
0.12	TAC124K050P01	1	0.5	3	5.6	TAC565K050P07	7	2.2	4
0.15	TAC154K050P01	1	0.5	3	6.8	TAC685K050P07	7	2.7	4
0.18	TAC184K050P01	1	0.5	3	8.2	TAC825K050P07	7	3.2	4
0.22	TAC224K050P01	1	0.5	3	10	TAC106K050P07	7	4.0	6
0.27	TAC274K050P01	1	0.5	3	12	TAC126K050P08	8	4.8	6
0.33	TAC334K050P02	2	0.5	3	15	TAC156K050P08	8	6.0	6
0.39	TAC394K050P02	2	0.5	3	18	TAC186K050P08	8	7.2	6
0.47	TAC474K050P02	2	0.5	3	22	TAC226K050P08	8	8.8	6
0.56	TAC564K050P02	2	0.5	3	·				

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