

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 Vibraton

Specifications

Capacitance Range: 0.10 μ F to 330 μ F
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 °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 | K | 006 | P | 0 | 7 |
|------|--------------------|---------------|--------------|-----------|-------------|-----------|
| Type | Capacitance | Tolerance | Voltage | Polar | Molded Case | Case Code |
| TAC | 394 = 0.39 μ F | J = \pm 5% | 006 = 6 Vdc | P = Polar | 0 | 1 |
| | 105 = 1.0 μ F | K = \pm 10% | 010 = 10 Vdc | | | 2 |
| | 225 = 2.2 μ F | | 015 = 15 dc | | | 5 |
| | 186 = 18 μ F | | 020 = 20 Vdc | | | 6 |
| | 107 = 100 μ F | | 025 = 25 Vdc | | | 7 |
| | | | 035 = 35 Vdc | | | 8 |
| | | | 050 = 50 Vdc | | | |

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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 °C (µA) | Max DF % @ +25 °C 120 Hz | Catalog Part Number | Cap (µF) | Case Code | Max DCL @ +25 °C (µA) | 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 | | | | | 35 WVdc @ 85 °C 23 WVdc @ 125 °C | | | | |
| 1 | 1 | 0.5 | 4 | TAC105K020P01 | 8.2 | 5 | 1.5 | 4 | TAC825K025P05 |
| 1.2 | 1 | 0.5 | 4 | TAC125K020P01 | 10 | 5 | 1.5 | 4 | TAC106K025P05 |
| 1.5 | 1 | 0.5 | 4 | TAC155K020P01 | 12 | 6 | 2.4 | 4 | TAC126K025P06 |
| 1.8 | 2 | 0.5 | 4 | TAC185K020P02 | 15 | 6 | 3.0 | 4 | TAC156K025P06 |
| 2.2 | 2 | 0.5 | 4 | TAC225K020P02 | 18 | 7 | 3.6 | 6 | TAC186K025P07 |
| 2.7 | 2 | 0.5 | 4 | TAC275K020P02 | 22 | 7 | 4.4 | 6 | TAC226K025P07 |
| 3.3 | 2 | 0.5 | 4 | TAC335K020P02 | 27 | 7 | 5.4 | 6 | TAC276K025P07 |
| 3.9 | 2 | 0.6 | 4 | TAC395K020P02 | 33 | 7 | 6.6 | 6 | TAC336K025P07 |
| 4.7 | 2 | 0.8 | 4 | TAC475K020P02 | 39 | 7 | 7.8 | 6 | TAC396K025P07 |
| 5.6 | 5 | 0.9 | 4 | TAC565K020P05 | 47 | 7 | 9.4 | 6 | TAC476K025P07 |
| 6.8 | 5 | 1.1 | 6 | TAC685K020P05 | 56 | 8 | 10 | 6 | TAC566K025P08 |
| 8.2 | 5 | 1.3 | 6 | TAC825K020P05 | 68 | 8 | 10 | 6 | TAC686K025P08 |
| 10 | 5 | 1.6 | 6 | TAC106K020P05 | 35 WVdc @ 85 °C 23 WVdc @ 125 °C | | | | |
| 12 | 6 | 1.9 | 6 | TAC126K020P06 | 0.10 | 1 | 0.5 | 3 | TAC104K035P01 |
| 15 | 6 | 2.4 | 6 | TAC156K020P06 | 0.12 | 1 | 0.5 | 3 | TAC124K035P01 |
| 18 | 6 | 2.9 | 6 | TAC186K020P06 | 0.15 | 1 | 0.5 | 3 | TAC154K035P01 |
| 22 | 6 | 3.5 | 6 | TAC226K020P06 | 0.18 | 1 | 0.5 | 3 | TAC184K035P01 |
| 27 | 7 | 4.3 | 6 | TAC276K020P07 | 0.22 | 1 | 0.5 | 3 | TAC224K035P01 |
| 33 | 7 | 5.0 | 6 | TAC336K020P07 | 0.27 | 1 | 0.5 | 3 | TAC274K035P01 |
| 39 | 7 | 6.2 | 6 | TAC396K020P07 | 0.33 | 1 | 0.5 | 3 | TAC334K035P01 |
| 47 | 7 | 7.5 | 6 | TAC476K020P07 | 0.39 | 1 | 0.5 | 3 | TAC394K035P01 |
| 56 | 7 | 8.9 | 6 | TAC566K020P07 | 0.47 | 1 | 0.5 | 3 | TAC474K035P01 |
| 68 | 7 | 10.0 | 6 | TAC686K020P07 | 0.56 | 2 | 0.5 | 3 | TAC564K035P02 |
| 82 | 8 | 10.0 | 8 | TAC826K020P08 | 0.68 | 2 | 0.5 | 3 | TAC684K035P02 |
| 100 | 8 | 10.0 | 8 | TAC107K020P08 | 0.82 | 2 | 0.5 | 3 | TAC824K035P02 |
| 25 WVdc @ 85 °C 17 WVdc @ 125 °C | | | | | 1.0 | 2 | 0.5 | 3 | TAC105K035P02 |
| 0.47 | 1 | 0.5 | 3 | TAC474K025P01 | 1.2 | 2 | 0.5 | 3 | TAC125K035P02 |
| 0.56 | 1 | 0.5 | 3 | TAC564K025P01 | 1.5 | 2 | 0.5 | 3 | TAC155K035P02 |
| 0.68 | 1 | 0.5 | 3 | TAC684K025P01 | 1.8 | 5 | 0.5 | 3 | TAC185K035P05 |
| 0.82 | 1 | 0.5 | 3 | TAC824K025P01 | 2.2 | 5 | 0.6 | 3 | TAC225K035P05 |
| 1.0 | 1 | 0.5 | 3 | TAC105K025P01 | 2.7 | 5 | 0.8 | 3 | TAC275K035P05 |
| 1.2 | 2 | 0.5 | 3 | TAC125K025P02 | 3.3 | 5 | 0.9 | 4 | TAC335K035P05 |
| 1.5 | 2 | 0.5 | 3 | TAC155K025P02 | 3.9 | 5 | 1.1 | 4 | TAC395K035P05 |
| 1.8 | 2 | 0.5 | 3 | TAC185K025P02 | 4.7 | 5 | 1.3 | 4 | TAC475K035P05 |
| 2.2 | 2 | 0.5 | 3 | TAC225K025P02 | 5.6 | 6 | 1.6 | 4 | TAC565K035P06 |
| 2.7 | 2 | 0.5 | 3 | TAC275K025P02 | 6.8 | 6 | 1.9 | 4 | TAC685K035P06 |
| | | | | | 8.2 | 6 | 2.3 | 4 | TAC825K035P06 |
| | | | | | 10 | 6 | 2.8 | 4 | TAC106K035P06 |

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Type TAC Solid Tantalum Capacitors

| Cap (μF) | Case Code | Max DCL @ +25 °C (μA) | 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 (μF) | Case Code | Max DCL @ +25 °C (μA) | 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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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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