## Hermetically Sealed Axial Lead Solid Tantalum Capacitors

The Type TXA has an extended capacitance range, and, like the Type TAS, is a solid tantalum axial lead capacitor constructed with a rugged hermetically sealed metal case insulated with an outer polyester wrap and is ideal for use in the harsh environments of military and industrial applications. The TXA assures a small case size for high capacitance, and is frequency and

### Highlights

- Extended Capacitance Range
- Hermetically Sealed
- Low DC Leakage
- Low Dissipation Factor
- Temperature and Frequency Stable
- Moisture & Solvent Resistant
- Miniature Size
- Long Shelf Life



### Specifications

**Capacitance Range:** 1.2 µF to 1000 µF
**Voltage Range:** 6 WVdc to 50 WVdc @ 85 ºC
**Capacitance Tolerance:** ±10%, ±20% (±5% by special order)
**Operating Temperature:** –55 ºC to +125 ºC ( With proper derating)

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

**DC Leakage:**
At +25 ºC - (See Ratings)
At +85 ºC - 10 x Ratings limit
At +125 ºC - 12.5 x Ratings limit

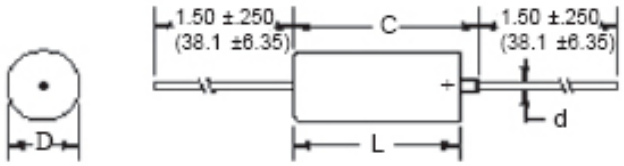
**Capacitance Change Maximum:**
–10% @ –55 ºC
+8% @ +85 ºC
+12% @ +125 ºC

**Maximum Power Dissipation @ 25 ºC:**

| Case Code | Watts |
|---|---|
| A | 0.090 |
| C | 0.100 |
| F | 0.125 |
| G | 0.180 |

# Type TXA Solid Tantalum Capacitors

## Outline Drawing




| Case Code | Uninsulated D ±.005 (±.13) | Uninsulated L ±.031 (±.79) | Insulated D ±.010 (±.25) | Insulated L ±.031 (±.79) | Inches (mm) C Maximum | Inches (mm) d ±.001 (±.03) | Quantity Per Reel |
|---|---|---|---|---|---|---|---|
| A | .125(3.18) | .250(6.35) | .135(3.43) | .286(7.26) | .422 (10.72) | .020(51) | 3,500 |
| C | .175(4.45) | .438(11.13) | .185(4.70) | .474(12.04) | .610(15.49) | .020(.51) | 2,500 |
| F | .279(7.09) | .650(16.51) | .289(7.34) | .686(17.42) | .822(20.88) | .025(.64) | 500 |
| G | .341(8.66) | .750(19.05) | .351(8.92) | .786(19.96) | .922(23.42) | .025(.64) | 400 |

## Part Numbering Sys-

| TXA | 186 | M | 020 | P | 1 | C |
|---|---|---|---|---|---|---|
| Type | Capacitance | Tolerance | Voltage | Polar | Mylar Sleeve | Case Code |
| **TXA** | **105** = 1.0 µF | **J** = ±5% | **006** = 6 Vdc | **P =** Polar | **1** | **A** |
| | **225** = 2.2 µF | **K** = ±10% | **020** = 20 Vdc | | | **C** |
| | **186** = 18.6 µF | **M** = ±20% | **050** = 50 Vdc | | | **F** |

## Ratings

| Cap (µF) | Catalog Part Number | Case Code | Max DCL @ +25 °C (µA) | Max DF % @ +25 °C 120 Hz |
|---|---|---|---|---|
| **6 WVdc @ 85 °C 4 WVdc @ 125 °C** | | | | |
| 8.2 | TXA825K006P1A | A | 0.9 | 6 |
| 10 | TXA106K006P1A | A | 0.9 | 6 |
| 12 | TXA126K006P1A | A | 1.0 | 6 |
| 82 | TXA826K006P1C | C | 3.0 | 6 |
| 100 | TXA107K006P1C | C | 6.0 | 6 |
| 220 | TXA227K006P1F | F | 10 | 8 |
| 270 | TXA277K006P1F | F | 10 | 8 |
| 330 | TXA337K006P1F | F | 10 | 8 |
| 390 | TXA397K006P1F | F | 10 | 10 |
| 470 | TXA477K006P1F | F | 10 | 10 |
| 560 | TXA567K006P1G | G | 20 | 10 |
| 680 | TXA687K006P1G | G | 20 | 10 |
| 820 | TXA827K006P1G | G | 20 | 10 |
| 1000 | TXA108K006P1G | G | 20 | 10 |
| **10 WVdc @ 85 °C 7 WVdc @ 125 °C** | | | | |
| 5.6 | TXA565K010P1A | A | 1.0 | 4 |
| 6.8 | TXA685K010P1A | A | 1.0 | 6 |
| 8.2 | TXA825K010P1A | A | 1.2 | 6 |
| 47 | TXA476K010P1C | C | 4.0 | 6 |
| 56 | TXA566K010P1C | C | 5.0 | 6 |
| 68 | TXA686K010P1C | C | 6.0 | 6 |
| 82 | TXA826K010P1C | C | 7.0 | 6 |
| 150 | TXA157K010P1F | F | 8.0 | 8 |
| 180 | TXA187K010P1F | F | 8.0 | 8 |
| 220 | TXA227K010P1F | F | 13 | 8 |

| Cap (µF) | Catalog Part Number | Case Code | Max DCL @ +25 °C (µA) | Max DF % @ +25 °C 120 Hz |
|---|---|---|---|---|
| **10 WVdc @ 85 °C 7 WVdc @ 125 °C** | | | | |
| 270 | TXA277K010P1F | F | 13 | 8 |
| 330 | TXA337K010P1G | G | 16 | 8 |
| 390 | TXA397K010P1G | G | 16 | 10 |
| 470 | TXA477K010P1G | G | 16 | 10 |
| 560 | TXA567K010P1G | G | 20 | 10 |
| **15 WVdc @ 85 °C 10 WVdc @ 125 °C** | | | | |
| 3.9 | TXA395K015P1A | A | 1.0 | 4 |
| 4.7 | TXA475K015P1A | A | 1.0 | 4 |
| 5.6 | TXA565K015P1A | A | 1.3 | 4 |
| 27 | TXA276K015P1C | C | 3.0 | 6 |
| 33 | TXA336K015P1C | C | 5.0 | 6 |
| 39 | TXA396K015P1C | C | 5.0 | 6 |
| 82 | TXA826K015P1F | F | 8.0 | 6 |
| 100 | TXA107K015P1F | F | 10 | 6 |
| 120 | TXA127K015P1F | F | 10 | 6 |
| 150 | TXA157K015P1F | F | 15 | 8 |
| 180 | TXA187K015P1F | F | 15 | 8 |
| 220 | TXA227K015P1G | G | 20 | 8 |
| 270 | TXA277K015P1G | G | 20 | 8 |
| 330 | TXA337K015P1G | G | 20 | 8 |

## Ratings

| Cap (µF) | Catalog Part Number | Case Code | Max DCL @ +25 °C (µA) | Max DF % @ +25 °C 120 Hz |
|---|---|---|---|---|
| **20 WVdc @ 85 °C 13 WVdc @ 125 °C** | | | | |
| 2.7 | TXA275K020P1A | A | 0.8 | 4 |
| 3.3 | TXA335020P1A | A | 1.0 | 4 |
| 3.9 | TXA395K020P1A | A | 1.2 | 4 |
| 4.7 | TXA475K020P1A | A | 1.2 | 4 |
| 18 | TXA186K020P1C | C | 3.0 | 6 |
| 22 | TXA226K020P1C | C | 3.0 | 6 |
| 27 | TXA276K020P1C | C | 4.0 | 6 |
| 56 | TXA566K020P1F | F | 7.0 | 6 |
| 68 | TXA686K020P1F | F | 8.0 | 6 |
| 82 | TXA826K020P1F | F | 10 | 6 |
| 100 | TXA107K020P1F | F | 12 | 6 |
| 120 | TXA127K020P1F | F | 12 | 6 |
| 150 | TXA157K020P1G | G | 15 | 8 |
| 180 | TXA187K020P1G | G | 15 | 8 |
| **30 WVdc @ 85 °C 20 WVdc @ 125 °C** | | | | |
| 1.8 | TXA185K030P1A | A | 1 | 4 |
| 2.2 | TXA225K030P1A | A | 1 | 4 |
| 2.7 | TXA275K030P1A | A | 1 | 4 |
| 12 | TXA126K030P1C | C | 3 | 4 |
| 15 | TXA156K030P1C | C | 3 | 4 |
| 18 | TXA186K030P1C | C | 3 | 4 |
| 33 | TXA336K030P1F | F | 6 | 6 |
| 39 | TXA396K030P1F | F | 6 | 6 |
| 47 | TXA476K030P1F | F | 7 | 6 |
| 56 | TXA566K030P1F | F | 7 | 6 |
| 68 | TXA686K030P1F | F | 7 | 6 |
| 100 | TXA107K030P1G | G | 10 | 8 |

| Cap (µF) | Catalog Part Number | Case Code | Max DCL @ +25 °C (µA) | Max DF % @ +25 °C 120 Hz |
|---|---|---|---|---|
| **35 WVdc @ 85 °C 23 WVdc @ 125 °C** | | | | |
| 1.5 | TXA155K035P1A | A | 0.8 | 4 |
| 1.8 | TXA185035P1A | A | 1 | 4 |
| 8.2 | TXA825K035P1C | C | 3 | 4 |
| 10 | TXA106K035P1C | C | 3 | 4 |
| 27 | TXA276K035P1F | F | 7 | 6 |
| 33 | TXA336K035P1F | F | 8 | 6 |
| 39 | TXA396K035P1F | F | 10 | 6 |
| 47 | TXA476K035P1F | F | 10 | 6 |
| 56 | TXA566K035P1G | G | 12 | 6 |
| 68 | TXA686K035P1G | G | 12 | 6 |
| **50 WVdc @ 85 °C 33 WVdc @ 125 °C** | | | | |
| 1.2 | TXA125K050P1A | A | 0.6 | 4 |
| 1.5 | TXA155K050P1A | A | 0.8 | 4 |
| 5.6 | TXA565K050P1C | C | 2.5 | 4 |
| 6.8 | TXA685K050P1C | C | 2.5 | 4 |
| 22 | TXA226K050P1F | F | 7 | 6 |
| 27 | TXA276K050P1F | F | 8 | 6 |
| 33 | TXA336K050P1G | G | 10 | 6 |
| 39 | TXA396K050P1G | G | 10 | 6 |

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