

Type TXA Solid Tantalum Capacitors

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 temperature stable.

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 °C

Capacitance Tolerance: $\pm 10\%$, $\pm 20\%$ ($\pm 5\%$ by special order)

Operating Temperature: $-55\text{ }^{\circ}\text{C}$ to $+125\text{ }^{\circ}\text{C}$ (With proper derating)

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

DC Leakage: At $+25\text{ }^{\circ}\text{C}$ - (See Ratings)
At $+85\text{ }^{\circ}\text{C}$ - 10 x Ratings limit
At $+125\text{ }^{\circ}\text{C}$ - 12.5 x Ratings limit

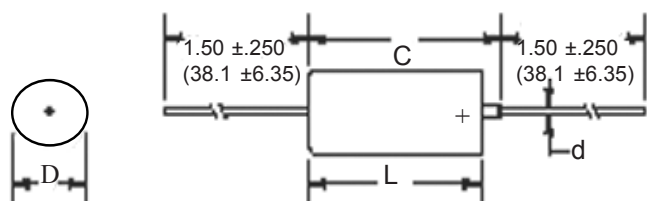
Capacitance Change Maximum: -10% @ $-55\text{ }^{\circ}\text{C}$
 $+8\%$ @ $+85\text{ }^{\circ}\text{C}$
 $+12\%$ @ $+125\text{ }^{\circ}\text{C}$

Maximum Power Dissipation @ 25 °C:

Case Code	Watts
A	0.090
C	0.100
F	0.125
G	0.180

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Outline Drawing



Case Code	Uninsulated		Insulated		in. (mm)		Quantity Per Reel
	D ±.005 (±.13)	L ±.031 (±.79)	D ±.010 (±.25)	L ±.031 (±.79)	C Maximum	d ±.001 (±.03)	
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 System

TXA	186	M	020	P	1	C
Type	Capacitance	Tolerance	Voltage	Polar	Sleeve	Case Code
TXA	105 = 1.0 µF 225 = 2.2 µF 186 = 18 µF 108 = 1000 µF	J = ±5% K = ±10% M = ±20%	006 = 6 Vdc 020 = 20 Vdc 050 = 50 Vdc	P = Polar	1 Mylar	A C F G

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				
8.2	A	0.9	6	TXA825K006P1A	270	F	13	8	TXA277K010P1F
10	A	0.9	6	TXA106K006P1A	330	G	16	8	TXA337K010P1G
12	A	1	6	TXA126K006P1A	390	G	16	10	TXA397K010P1G
82	C	3	6	TXA826K006P1C	470	G	16	10	TXA477K010P1G
100	C	6	6	TXA107K006P1C	560	G	20	10	TXA567K010P1G
220	F	10	8	TXA227K006P1F	15 WVdc @ 85 °C 10 WVdc @ 125 °C				
270	F	10	8	TXA277K006P1F	3.9	A	1.0	4	TXA395K015P1A
330	F	10	8	TXA337K006P1F	4.7	A	1.0	4	TXA475K015P1A
390	F	10	10	TXA397K006P1F	5.6	A	1.3	4	TXA565K015P1A
470	F	10	10	TXA477K006P1F	27	C	3.0	6	TXA276K015P1C
560	G	20	10	TXA567K006P1G	33	C	5.0	6	TXA336K015P1C
680	G	20	10	TXA687K006P1G	39	C	5.0	6	TXA396K015P1C
820	G	20	10	TXA827K006P1G	82	F	8.0	6	TXA826K015P1F
1000	G	20	10	TXA108K006P1G	100	F	10	6	TXA107K015P1F
10 WVdc @ 85 °C 7 WVdc @ 125 °C					120	F	10	6	TXA127K015P1F
5.6	A	1.0	4	TXA565K010P1A	150	F	15	8	TXA157K015P1F
6.8	A	1.0	6	TXA685K010P1A	180	F	15	8	TXA187K015P1F
8.2	A	1.2	6	TXA825K010P1A	220	G	20	8	TXA227K015P1G
47	C	4.0	6	TXA476K010P1C	270	G	20	8	TXA277K015P1G
56	C	5.0	6	TXA566K010P1C	330	G	20	8	TXA337K015P1G
68	C	6.0	6	TXA686K010P1C					
82	C	7.0	6	TXA826K010P1C					
150	F	8.0	8	TXA157K010P1F					
180	F	8.0	8	TXA187K010P1F					
220	F	13	8	TXA227K010P1F					

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Cap (μ F)	Case Code	Max DCL @ +25 °C (μ A)	Max DF % @ +25 °C 120 Hz	Catalog Part Number
20 WVdc @ 85 °C 13 WVdc @ 125 °C				
2.7	A	0.8	4	TXA275K020P1A
3.3	A	1.0	4	TXA335K020P1A
3.9	A	1.2	4	TXA395K020P1A
4.7	A	1.2	4	TXA475K020P1A
18	C	3.0	6	TXA186K020P1C
22	C	3.0	6	TXA226K020P1C
27	C	4.0	6	TXA276K020P1C
56	F	7.0	6	TXA566K020P1F
68	F	8.0	6	TXA686K020P1F
82	F	10	6	TXA826K020P1F
100	F	12	6	TXA107K020P1F
120	F	12	6	TXA127K020P1F
150	G	15	8	TXA157K020P1G
180	G	15	8	TXA187K020P1G
30 WVdc @ 85 °C 20 WVdc @ 125 °C				
1.8	A	1	4	TXA185K030P1A
2.2	A	1	4	TXA225K030P1A
2.7	A	1	4	TXA275K030P1A
12	C	3	4	TXA126K030P1C
15	C	3	4	TXA156K030P1C
18	C	3	4	TXA186K030P1C
33	F	6	6	TXA336K030P1F
39	F	6	6	TXA396K030P1F
47	F	7	6	TXA476K030P1F
56	F	7	6	TXA566K030P1F
68	F	7	6	TXA686K030P1F
100	G	10	8	TXA107K030P1G

Cap (μ F)	Case Code	Max DCL @ +25 °C (μ A)	Max DF % @ +25 °C 120 Hz	Catalog Part Number
35 WVdc @ 85 °C 23 WVdc @ 125 °C				
1.5	A	0.8	4	TXA155K035P1A
1.8	A	1	4	TXA185K035P1A
8.2	C	3	4	TXA825K035P1C
10	C	3	4	TXA106K035P1C
27	F	7	6	TXA276K035P1F
33	F	8	6	TXA336K035P1F
39	F	10	6	TXA396K035P1F
47	F	10	6	TXA476K035P1F
56	G	12	6	TXA566K035P1G
68	G	12	6	TXA686K035P1G
50 WVdc @ 85 °C 33 WVdc @ 125 °C				
1.2	A	0.6	4	TXA125K050P1A
1.5	A	0.8	4	TXA155K050P1A
5.6	C	2.5	4	TXA565K050P1C
6.8	C	2.5	4	TXA685K050P1C
22	F	7	6	TXA226K050P1F
27	F	8	6	TXA276K050P1F
33	G	10	6	TXA336K050P1G
39	G	10	6	TXA396K050P1G