SHENZHEN ZEASSET ELECTRONIC TECHNOLOGY CO.LTD
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TX SERIES

Downsize | High Ripple | RoHS

- All-welded construction ensures reliable electrical contact.
- Compared with the TA series of smaller size,higher ripple.
- Endurance with ripple current: 2000 hours at 85℃.
- Applications: Frequency converters and Uninterruptible power supplies

TX
↑ Downsize
TA P84

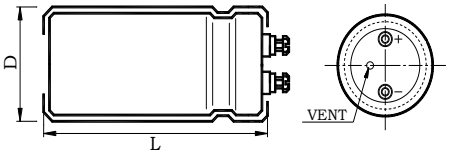
◆SPECIFICATIONS

Items	Characteristics
Operating Temperature Range	－25～+85℃
Rated working voltage range	350～500V
Capacitance Range	470～18000μ F
Capacitance Tolerance	±20% (20℃,120Hz)
Dissipation Factor（MAX） 20℃，120Hz	U_R(V) 350 400 450 500 tanδ 0.15 0.20
Leakage Current（MAX）	I＝0.01$C_R U_R$ or 5mA whichever is minimum.（at 20℃，After 5 minutes application of rated voltage） I＝Leakage Current（μA） U_R＝Rated Voltage（V） C_R＝Rated Capacitance（μF）

	Useful Life		Load Life	Endurance Test	Shelf Life	
Shelf Life	4000h	>65000h	2000h	2000h	1000h	
Leakage Current	≤Specified value		≤Specified value	≤Specified value	≤Specified value	
tanδ Change	≤300% of specified value		≤175% of specified value	≤ 130% of specified value	≤ 150% of specified value	
Capacitance Change	Within±30% of initial value		Within±15% of initial value	Within±10% of initial value	Within±15% of initial value	
Condition Applied Voltage Applied Ripple Current Applied Temperature Failure Rate Level	U_R I_R 85℃ ≤1% Failure rate	U_R 1.2×I_R 40℃ ≤1% Failure rate	U_R I_R 85℃ 0%	U_R I_R=0 85℃ 0%	U_R=0 I_R=0 85℃ 0%	Back up to 20 ℃ and placed more than 24 hours. U_R to be applied for 60 min before measurement.

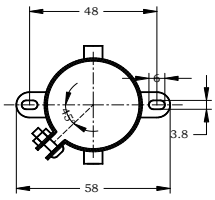
◆Dimensions

●Terminal Code

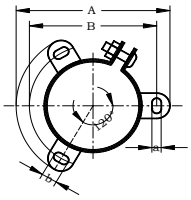


S-Type：Small terminal M5 thread
L-Type：Large terminal M6 thread

Ring Clip: T (Φ35 Standard)



Ring Clip: S (Φ51~Φ89 Standard)



Ring Clip Dimensions:

ΦD	A	B	a	b
51	73.0	63.5	4.5	7
64	85.1	76.2	4.5	7
76	98.4	88.9	4.5	7
89	111.1	101.6	4.5	7

For detailed dimension & tolerance, please refer to P90

●Please consult to us for the terminal type not displayed in content

◆PART NUMBER SYSTEM

● Example TX 400V4700μF Φ76×105 ±20%

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
T	X	G	4	7	2	M	7	6	1	0	5	S	V	A

- 15: special requirement
- 14: Sleeve Code
- 13: Lead Form Code
- 10 11 12: （e.g.: 105→105）The height of the code（mm）
- 8 9: （e.g.: 64→64，76→76）Diameter code（mm）
- 7: （e.g.: ±20%→M） Capacitance Tolerance code
- 4 5 6: （e.g.: 4700→472,15000→153）Capacitance Code（μF）
- 3: （e.g.: 400V→G, 500V→C）Rated Voltage Code（V）
- 1 2: （e.g.: TX→TX）Series Code

◆Rated Ripple Current Multiplies

●Frequency coefficient

Frequency（Hz）	50(60)	100(120)	300	1k	≥10k
Coefficient	0.80	1.00	1.10	1.25	1.50

●Temperature coefficient

Temperature（℃）	+40	+60	+70	+85
Coefficient	2.70	2.00	1.70	1.00

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TX SERIES

◆Standard Ratings

WV_{DC} (Surge Voltage) (V)	Cap (μF)	Size D×L (mm)	tanδ 20℃120Hz	Ripple Current 85℃120Hz (Arms)	Catalog Part Number
350 (400)	1500	51×70	0.15	5.5	TXH152M51070□VA
	1800	51×80	0.15	6.4	TXH182M51080□VA
	2200	51×95	0.15	7.6	TXH222M51095□VA
	2700	51×115	0.15	9.1	TXH272M51115□VA
	3300	64×90	0.15	10.3	TXH332M64090□VA
	3900	51×130	0.15	11.3	TXH392M51130□VA
	3900	64×95	0.15	11.4	TXH392M64095□VA
	4700	64×115	0.15	12.7	TXH472M64115□VA
	5600	64×130	0.15	14.6	TXH562M64130□VA
	5600	76×95	0.15	14.4	TXH562M76095□VA
	6800	76×115	0.15	16.8	TXH682M76115□VA
	8200	76×130	0.15	19.5	TXH822M76130□VA
	10000	76×155	0.15	21.6	TXH103M76155□VA
	12000	89×130	0.15	24.0	TXH123M89130□VA
	15000	89×157	0.15	27.9	TXH153M89157□VA
	18000	89×195	0.15	32.8	TXH183M89195□VA
400 (450)	1000	51×60	0.15	4.0	TXG102M51060□VA
	1200	51×70	0.15	4.7	TXG122M51070□VA
	1500	51×80	0.15	5.5	TXG152M51080□VA
	1800	51×90	0.15	6.4	TXG182M51090□VA
	2200	51×105	0.15	7.5	TXG222M51105□VA
	2700	51×115	0.15	8.7	TXG272M51115□VA
	3300	64×95	0.15	10.0	TXG332M64095□VA
	3900	64×115	0.15	11.9	TXG392M64115□VA
	4700	64×130	0.15	13.0	TXG472M64130□VA
	4700	76×105	0.15	13.5	TXG472M76105□VA
	5600	64×155	0.15	15.4	TXG562M64155□VA
	5600	76×115	0.15	15.3	TXG562M76115□VA
	6800	76×130	0.15	17.3	TXG682M76130□VA
	8200	76×155	0.15	20.5	TXG822M76155□VA
	10000	89×130	0.15	21.9	TXG103M89130□VA
	12000	89×157	0.15	24.0	TXG123M89157□VA
	15000	89×195	0.15	28.8	TXG153M89195□VA

WV_{DC} (Surge Voltage) (V)	Cap (μF)	Size D×L (mm)	tanδ 20℃120Hz	Ripple Current 85℃120Hz (Arms)	Catalog Part Number
450 (500)	1000	51×70	0.15	4.3	TXE102M51070□VA
	1200	51×80	0.15	4.9	TXE122M51080□VA
	1500	51×90	0.15	5.8	TXE152M51090□VA
	1800	51×95	0.15	6.5	TXE182M51095□VA
	2200	51×130	0.15	8.1	TXE222M51130□VA
	2700	64×95	0.15	9.1	TXE272M64095□VA
	3300	64×115	0.15	10.6	TXE332M64115□VA
	3900	64×130	0.15	12.2	TXE392M64130□VA
	3900	76×95	0.15	11.8	TXE392M76095□VA
	4700	64×155	0.15	14.1	TXE472M64155□VA
	4700	76×115	0.15	14.0	TXE472M76115□VA
	5600	76×130	0.15	15.4	TXE562M76130□VA
	6800	76×155	0.15	17.4	TXE682M76155□VA
	8200	89×130	0.15	19.8	TXE822M89130□VA
	10000	89×170	0.15	22.3	TXE103M89170□VA
	12000	89×195	0.15	26.0	TXE123M89195□VA
500 (550)	470	51×60	0.20	2.6	TXC471M51060□VA
	560	51×60	0.20	2.9	TXC561M51060□VA
	680	51×70	0.20	3.4	TXC681M51070□VA
	820	51×80	0.20	3.9	TXC821M51080□VA
	1000	51×90	0.20	4.5	TXC102M51090□VA
	1200	51×95	0.20	5.1	TXC122M51095□VA
	1500	64×95	0.20	6.5	TXC152M64095□VA
	1800	64×95	0.20	7.1	TXC182M64095□VA
	2200	64×115	0.20	8.5	TXC222M64115□VA
	2700	64×130	0.20	9.7	TXC272M64130□VA
	3300	76×115	0.20	11.2	TXC332M76115□VA
	3900	76×120	0.20	12.4	TXC392M76120□VA
	4700	76×145	0.20	14.4	TXC472M76145□VA
	5600	89×130	0.20	15.8	TXC562M89130□VA
	6800	89×157	0.20	18.8	TXC682M89157□VA
	8200	89×195	0.20	22.2	TXC822M89195□VA
	10000	89×220	0.20	24.9	TXC103M89220□VA

∗□Enter the appropriate terminal code

∗Please ask for advice for other sizes.

∗Aluminum electrolytic capacitor will emit heat when ripple current is applied, the performance will deteriorate when temp. rises. the useful life will be half of original life when temp rises every 5℃. Please reduce the ripple current when using capacitor.