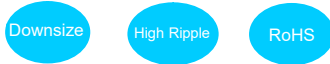
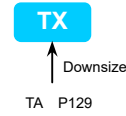


TX 系列 SERIES



- 全焊结构，确保可靠的电气接触性
All-welded construction ensures reliable electrical contact
- 与 TA 系列相比尺寸更小、更高纹波化。
Compared with the TA series of smaller size, higher ripple.
- 保证 85℃、2000 小时寿命。(叠加纹波电流)
Endurance with ripple current: 2000 hours at 85℃
- 应用：变频器和不间断电源
Applications: Frequency converters and Uninterruptible power supplies



规格表 SPECIFICATIONS

项目 Items	特性 Characteristics										
工作温度范围 Operating Temperature Range	-25~+85℃										
额定工作电压范围 Rated working voltage range	350~500V										
静电容量范围 Capacitance Range	470~18000 µF										
静电容量允许偏差 Capacitance Tolerance	±20% (20℃, 120Hz)										
损耗角正切值 Dissipation Factor (MAX) 20℃, 120Hz	<table border="1"> <tr> <td>U_R(V)</td> <td>350</td> <td>400</td> <td>450</td> <td>500</td> </tr> <tr> <td>tanδ</td> <td colspan="2">0.15</td> <td colspan="2">0.20</td> </tr> </table>	U _R (V)	350	400	450	500	tanδ	0.15		0.20	
U _R (V)	350	400	450	500							
tanδ	0.15		0.20								
漏电流 Leakage Current (MAX)	I=0.01C _R U _R 或5mA 取小者 (20℃, 施加额定电压5分钟后) I=0.01C _R U _R or 5mA whichever is minimum. (at 20℃, After 5 minutes application of rated voltage) I=漏电流 (µA) U _R =额定电压 (V) C _R =静电容量 (µF) Leakage Current Rated Voltage Rated Capacitance										

	使用寿命 Useful Life	负荷寿命 Load Life	耐久性特性 Endurance Test	高温无负荷特性 Shelf Life
产品寿命 Life Time	4000h	>65000h	2000h	1000h
漏电流 Leakage Current	≤规定值 ≤Specified value	≤规定值 ≤Specified value	≤规定值 ≤Specified value	≤规定值 ≤Specified value
损耗角正切值变化率 tanδ Change	≤规定值的300% ≤300% of specified value	≤规定值的175% ≤175% of specified value	≤规定值的130% ≤130% of specified value	≤规定值的150% ≤150% of specified value
静电容量变化率 Capacitance Change	初始值±30%以内 Within±30% of initial value	初始值±15%以内 Within±15% of initial value	初始值±10%以内 Within±10% of initial value	初始值±15%以内 Within±15% of initial value
施加条件 Condition 施加电压 Applied Voltage 施加纹波电流 Applied Ripple Current 环境温度 Applied Temperature 失效等级 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%

尺寸图 Dimensions

- 常用端子型式代码：Terminal Code

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

Ring Clip: T (Φ35 Standard)

Ring Clip: S (Φ51~Φ89 Standard)

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

产品详细尺寸和公差请参考 P130
For detailed dimension & tolerance, please refer to P130

- 记载以外的端子形状，请另行咨询。Please consult to us for the terminal type not displayed in content.

产品编码体系 PART NUMBER SYSTEM

●例如：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

客户特殊要求 special requirement
 套管材质代码 Sleeve Code
 端子型式代码 Lead Form Code
 高度代码 (例: 105→105) The height of the code (mm)
 直径代码 (例: 64→64, 76→76) Diameter code (mm)
 容差代码 (例: ±20%→M) Capacitance Tolerance code
 容量代码 (例: 4700→472, 15000→153) Capacitance Code (µF)
 电压代码 (例: 400V→G, 500V→C) Rated Voltage Code (V)
 产品系列代码 (例: TX→TX) Series Code

纹波电流修正系数 Rated Ripple Current Multiplies

●频率修正系数 Frequency coefficient

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

●温度修正系数 Temperature coefficient

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

◆ 产品一览表 Standard Ratings

WV _{dc} (Surge Voltage) (V)	Cap (μF)	Size D×L (mm)	tanδ 20℃ 120Hz	ESR _{typ} 20℃ 120Hz mΩ	Ripple Current 85℃ 120Hz (Arms)	Catalog Part Number
350 (400)	1500	51×70	0.15	70.8	5.7	TXH152M51070□VA
	1800	51×80	0.15	59.0	6.7	TXH182M51080□VA
	2200	51×95	0.15	48.3	8.0	TXH222M51095□VA
	2700	51×115	0.15	39.3	9.5	TXH272M51115□VA
	3300	64×90	0.15	32.2	10.7	TXH332M64090□VA
	3900	51×130	0.15	27.2	11.8	TXH392M51130□VA
	3900	64×95	0.15	27.2	11.9	TXH392M64095□VA
	4700	64×115	0.15	22.6	13.2	TXH472M64115□VA
	5600	64×130	0.15	19.0	15.2	TXH562M64130□VA
	5600	76×95	0.15	19.0	15.0	TXH562M76095□VA
	6800	76×115	0.15	15.6	17.5	TXH682M76115□VA
	8200	76×130	0.15	12.9	20.3	TXH822M76130□VA
	10000	76×155	0.15	10.6	22.5	TXH103M76155□VA
	12000	89×130	0.15	8.8	25.0	TXH123M89130□VA
15000	89×157	0.15	7.1	29.0	TXH153M89157□VA	
18000	89×195	0.15	5.9	34.1	TXH183M89195□VA	
400 (450)	1000	51×60	0.15	82.3	4.5	TXG102M51060□VA
	1200	51×70	0.15	67.5	4.9	TXG122M51070□VA
	1500	51×80	0.15	57.5	6.1	TXG152M51080□VA
	1800	51×90	0.15	47.2	6.7	TXG182M51090□VA
	2200	51×105	0.15	34.8	7.8	TXG222M51105□VA
	2700	51×115	0.15	32.9	9.8	TXG272M51115□VA
	3300	64×95	0.15	31.0	10.6	TXG332M64095□VA
	3900	64×105	0.15	24.8	12.0	TXG392M64105□VA
	3900	64×110	0.15	24.8	12.2	TXG392M64110□VA
	3900	64×115	0.15	24.8	12.4	TXG392M64115□VA
	4700	64×120	0.15	22.6	13.4	TXG472M64120□VA
	4700	64×130	0.15	22.6	13.9	TXG472M64130□VA
	4700	76×105	0.15	22.6	14.2	TXG472M76105□VA
	5600	64×155	0.15	19.0	16.1	TXG562M64155□VA
	5600	76×115	0.15	19.0	16.0	TXG562M76115□VA
	6800	76×115	0.15	15.4	16.4	TXG682M76115□VA
	6800	76×130	0.15	15.4	18.1	TXG682M76130□VA
	8200	76×130	0.15	12.9	18.5	TXG822M76130□VA
8200	76×145	0.15	12.9	20.7	TXG822M76145□VA	
8200	76×155	0.15	12.9	21.4	TXG822M76155□VA	
10000	76×155	0.15	10.6	22.0	TXG103M76155□VA	
10000	89×130	0.15	10.6	22.8	TXG103M89130□VA	

WV _{dc} (Surge Voltage) (V)	Cap (μF)	Size D×L (mm)	tanδ 20℃ 120Hz	ESR _{typ} 20℃ 120Hz mΩ	Ripple Current 85℃ 120Hz (Arms)	Catalog Part Number
400 (450)	12000	89×157	0.15	9.4	25.4	TXG123M89157□VA
	15000	89×195	0.15	8.0	30.0	TXG153M89195□VA
450 (500)	1000	51×70	0.15	82.3	4.6	TXE102M51070□VA
	1200	51×80	0.15	71.9	5.3	TXE122M51080□VA
	1500	51×90	0.15	58.4	6.5	TXE152M51090□VA
	1800	51×95	0.15	50.1	7.3	TXE182M51095□VA
	2200	51×130	0.15	42.8	8.4	TXE222M51130□VA
	2700	64×95	0.15	34.9	9.9	TXE272M64095□VA
	3300	64×115	0.15	29.8	11.7	TXE332M64115□VA
	3900	64×130	0.15	27.2	13.3	TXE392M64130□VA
	3900	76×95	0.15	27.2	13.2	TXE392M76095□VA
	4700	64×155	0.15	22.6	15.1	TXE472M64155□VA
	4700	76×115	0.15	22.6	15.0	TXE472M76115□VA
	5600	76×130	0.15	19.0	17.5	TXE562M76130□VA
	6800	76×145	0.15	15.6	19.1	TXE682M76145□VA
	6800	76×155	0.15	15.6	19.7	TXE682M76155□VA
8200	76×155	0.15	12.9	21.5	TXE822M76155□VA	
8200	89×130	0.15	12.9	21.8	TXE822M89130□VA	
10000	89×157	0.15	11.3	23.8	TXE103M89157□VA	
10000	89×170	0.15	11.3	24.6	TXE103M89170□VA	
12000	89×195	0.15	9.4	27.9	TXE123M89195□VA	
500 (550)	470	51×60	0.20	180.7	2.7	TXC471M51060□VA
	560	51×60	0.20	151.7	3.0	TXC561M51060□VA
	680	51×70	0.20	124.9	3.6	TXC681M51070□VA
	820	51×80	0.20	103.6	4.1	TXC821M51080□VA
	1000	51×90	0.20	84.9	5.4	TXC102M51090□VA
	1200	51×95	0.20	73.0	5.9	TXC122M51095□VA
	1500	64×95	0.20	60.2	6.9	TXC152M64095□VA
	1800	64×95	0.20	50.1	8.2	TXC182M64095□VA
	2200	64×115	0.20	41.0	9.5	TXC222M64115□VA
	2700	64×130	0.20	35.9	11.1	TXC272M64130□VA
	3300	76×115	0.20	31.8	12.6	TXC332M76115□VA
	3900	76×120	0.20	29.6	13.6	TXC392M76120□VA
	4700	76×145	0.20	24.6	16.2	TXC472M76145□VA
	5600	89×130	0.20	20.9	17.9	TXC562M89130□VA
6800	89×157	0.20	17.2	20.6	TXC682M89157□VA	
8200	89×195	0.20	13.9	23.3	TXC822M89195□VA	
10000	89×220	0.20	10.0	27.1	TXC103M89220□VA	

*产品编码中□内为产品端子引出型式代码
*□Enter the appropriate terminal code

*记载之外的体积，请另行咨询。
*Please ask for advice for other sizes.

*铝电解电容器由于承受纹波电流而发热，随着温升而发生性能劣化。请在使用中降低产品承受的纹波电流。
*Aluminum electrolytic capacitor will emit heat when ripple current is applied, the performance will deteriorate when temp. rises. Please reduce the ripple current when using capacitor.