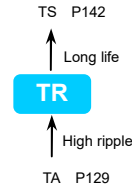


TR 系列 SERIES



- 与 TA 系列相比纹波电流提高 10~15%。
Compared with the TA series, ripple current is increased by 10~15%.
- 保证 85℃、3000 小时寿命。(叠加纹波电流)
Endurance with ripple current: 3000 hours at 85℃.
- 应用: 变频器和不间断电源
Applications: Frequency converters and Uninterruptible power supplies



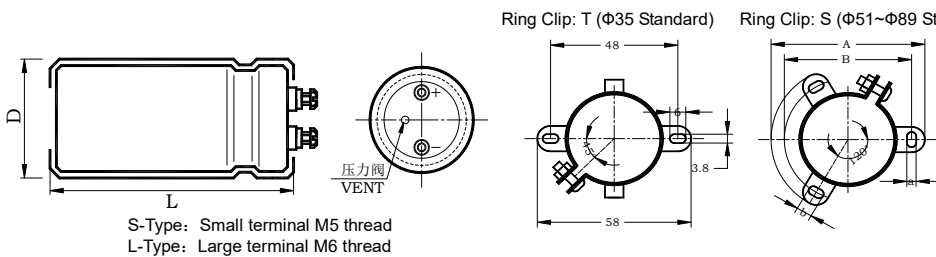
规格表 SPECIFICATIONS

项目 Items	特性 Characteristics						
工作温度范围 Operating Temperature Range	-40~+85℃						
额定工作电压范围 Rated Working Voltage Range	400~450V						
静电容量范围 Capacitance Range	1000~15000 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>400</td> <td>450</td> </tr> <tr> <td>tanδ</td> <td colspan="2">0.15</td> </tr> </table>	U _R (V)	400	450	tanδ	0.15	
U _R (V)	400	450					
tanδ	0.15						
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	6000h	>65000h	3000h	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 200% ≤200% of specified value	≤规定值的 130% ≤ 130% of specified	≤规定值的 150% ≤ 150% of specified
静电容量变化率 Capacitance Change	初始值±30%以内 Within±30% of initial value	初始值±20%以内 Within±20% of initial value	初始值±10%以内 Within±10% of initial	初始值±15%以内 Within±15% of initial
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 =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..

尺寸图 Dimensions

- 常用端子型式代码: Terminal Code



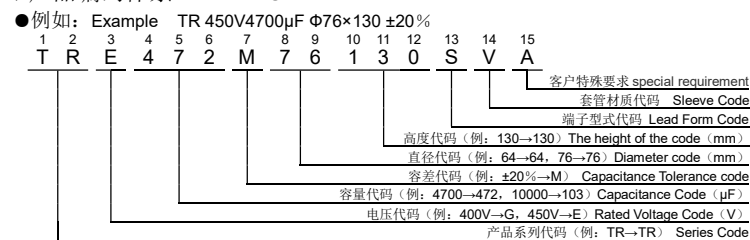
Ring Clip Dimensions:

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

产品详细尺寸和公差请参照 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



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	1.20	1.30

●温度修正系数 Temperature coefficient

温度 Temperature (℃)	+40	+60	+70	+85
系数 Coefficient	2.40	1.87	1.45	1.00

◆ 产品一览表 Standard Ratings

WV _{DC} (Surge Voltage) (V)	Cap (μ F)	Size D×L (mm)	tan δ 20°C/120Hz	Ripple Current 85°C/120Hz (Arms)	Catalog Part Number
400 (450)	1000	51×80	0.15	4.8	TRG102M51080□VA
	1200	51×80	0.15	5.1	TRG122M51080□VA
	1500	51×95	0.15	6.3	TRG152M51095□VA
	1800	51×95	0.15	7.0	TRG182M51095□VA
	2200	51×115	0.15	8.0	TRG222M51115□VA
	2700	64×95	0.15	9.7	TRG272M64095□VA
	3300	64×115	0.15	11.4	TRG332M64115□VA
	3900	64×130	0.15	12.7	TRG392M64130□VA
	4700	76×115	0.15	14.6	TRG472M76115□VA
	5600	76×130	0.15	16.8	TRG562M76130□VA
	6800	76×155	0.15	20.2	TRG682M76155□VA
	8200	89×157	0.15	22.5	TRG822M89157□VA
	10000	89×157	0.15	24.9	TRG103M89157□VA
	12000	89×195	0.15	28.5	TRG123M89195□VA
15000	89×235	0.15	33.1	TRG153M89235□VA	

WV _{DC} (Surge Voltage) (V)	Cap (μ F)	Size D×L (mm)	tan δ 20°C/120Hz	Ripple Current 85°C/120Hz (Arms)	Catalog Part Number
450 (500)	1000	51×80	0.15	4.9	TRE102M51080□VA
	1200	51×95	0.15	5.4	TRE122M51095□VA
	1500	51×115	0.15	7.2	TRE152M51115□VA
	1800	51×130	0.15	8.3	TRE182M51130□VA
	2200	64×95	0.15	9.0	TRE222M64095□VA
	2700	64×115	0.15	10.4	TRE272M64115□VA
	3300	64×130	0.15	12.1	TRE332M64130□VA
	3900	76×115	0.15	13.4	TRE392M76115□VA
	4700	76×130	0.15	15.5	TRE472M76130□VA
	5600	76×155	0.15	18.3	TRE562M76155□VA
	6800	89×157	0.15	20.9	TRE682M89157□VA
	8200	89×157	0.15	23.0	TRE822M89157□VA
	10000	89×195	0.15	27.2	TRE103M89195□VA
	12000	89×235	0.15	32.5	TRE123M89235□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.