

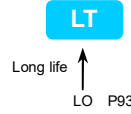
LT 系列 SERIES

Long life

RoHS



- LT 系列长寿命化产品。
Long life version of LT series
- 保证 85℃、20000 小时寿命。(叠加纹波电流)
Endurance with ripple current: 20000 hours at 85℃
- 额定工作电压范围: 160V~500V
Rated voltage: 160V-500V
- 适合转换电源及变频器等平滑用。
Ideal for switching power and inverter smoothing capacitors



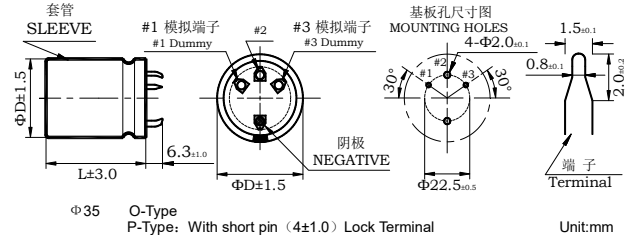
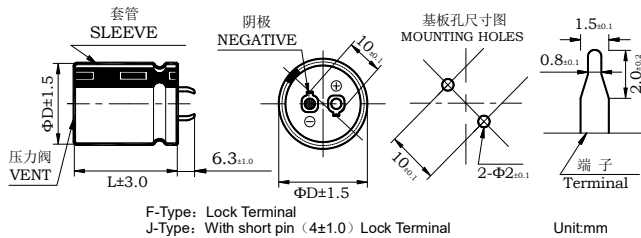
规格表 SPECIFICATIONS

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	160~500V					
静电容量允许偏差 Capacitance Tolerance	±20% (20℃, 120Hz)					
损耗角正切值 Dissipation Factor (MAX) 20℃, 120Hz	U _R (V)	160	200	250	400	450
	tanδ	0.15	0.15	0.15	0.15	0.20
阻抗比 Impedance Ratio (MAX) 120Hz	U _R (V)	160~200	250	400	450~500	
	Z _{-25℃/Z_{+20℃}}	3	4	7	8	
漏电流 Leakage Current (MAX)	$I = 0.01C_R U_R$ 或 1.5mA 取小者 (20℃, 施加额定电压 5 分钟后) $I = 0.01C_R U_R$ or 1.5mA 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	21000h	>200000h	20000h	20000h	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 200% ≤200% of specified value	≤规定值的 200% ≤200% 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±20%以内 Within±20% of initial value	初始值±20%以内 Within±20% of initial value	初始值±20%以内 Within±20% 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%	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



- 记载以外的端子形状, 请另行咨询。Please ask for advice for other sizes.

产品编码体系 PART NUMBER SYSTEM

- 例如: Example LT 400V470µF Φ35×50 ±20%
- 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
 L T G 4 7 1 M 3 5 0 5 0 F 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: 50→050) The height of the code (mm)
 直径代码 (例: 35→35, 22→22) Diameter code (mm)
 容差代码 (例: ±20%→M, ±10%→K) Capacitance Tolerance code
 容量代码 (例: 470→471, 2200→222) Capacitance Code (µF)
 电压代码 (例: 400V→G, 500V→C) Rated Voltage Code (V)
 产品系列代码 (例: LT→LT) Series Code

纹波电流修正系数 Rated Ripple Current Multiplies

●频率修正系数 Frequency coefficient						
频率 (Hz) Frequency	50 (60)	100 (120)	300	1k	≥10k	
电压范围 (v) Rated voltage	160~500VV	0.80	1.00	1.16	1.30	1.41
●温度修正系数 Temperature coefficient						
温度 (℃) Temperature	+40	+55	+70	+85		
电压范围 (v) Rated voltage	160~500VV	1.7	1.5	1.3	1.0	

LT 系列 SERIES

◆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
160 (200)	330	22×25	0.15	354	1.50	LTN331M22025□VA
	390	25×25	0.15	299	1.60	LTN391M25025□VA
	470	22×35	0.15	249	1.80	LTN471M22035□VA
	560	22×40	0.15	209	2.10	LTN561M22040□VA
	560	25×30	0.15	209	2.20	LTN561M25030□VA
	560	30×25	0.15	209	2.20	LTN561M30025□VA
	680	22×40	0.15	172	2.60	LTN681M22040□VA
	680	25×35	0.15	172	2.60	LTN681M25035□VA
	820	22×50	0.15	142	2.80	LTN821M22050□VA
	820	25×40	0.15	142	2.80	LTN821M25040□VA
	820	30×30	0.15	142	2.90	LTN821M30030□VA
	820	35×25	0.15	142	2.90	LTN821M35025□VA
	1000	25×45	0.15	117	3.30	LTN102M25045□VA
	1000	30×35	0.15	117	3.30	LTN102M30035□VA
	1000	35×30	0.15	117	3.40	LTN102M35030□VA
	1200	25×50	0.15	97	3.70	LTN122M25050□VA
	1200	30×40	0.15	97	3.70	LTN122M30040□VA
	1200	35×35	0.15	97	3.80	LTN122M35035□VA
	1500	30×45	0.15	78	4.30	LTN152M30045□VA
	1500	35×40	0.15	78	4.40	LTN152M35040□VA
	1800	35×45	0.15	65	4.81	LTN182M35045□VA
	2200	35×50	0.15	53	5.33	LTN222M35050□VA
200 (250)	220	22×25	0.15	555	1.20	LTL221M22025□VA
	330	22×30	0.15	452	1.55	LTL331M22030□VA
	330	25×25	0.15	370	1.60	LTL331M25025□VA
	390	22×35	0.15	313	1.80	LTL391M22035□VA
	390	25×30	0.15	313	1.80	LTL391M25030□VA
	470	22×40	0.15	260	2.00	LTL471M22040□VA
	470	30×25	0.15	260	2.10	LTL471M30025□VA
	560	22×45	0.15	218	2.20	LTL561M22045□VA
	560	25×35	0.15	218	2.20	LTL561M25035□VA
	560	30×30	0.15	218	2.30	LTL561M30030□VA
	560	35×25	0.15	218	2.30	LTL561M35025□VA
	680	25×40	0.15	180	2.60	LTL681M25040□VA
	680	30×30	0.15	180	2.50	LTL681M30030□VA
	820	25×50	0.15	149	2.70	LTL821M25050□VA
	820	30×40	0.15	149	2.70	LTL821M30040□VA
	820	35×35	0.15	149	2.80	LTL821M35035□VA
	1000	30×40	0.15	122	3.60	LTL102M30040□VA
	1000	35×35	0.15	122	3.55	LTL102M35035□VA
	1200	30×50	0.15	102	3.80	LTL122M30050□VA
	1200	35×40	0.15	102	3.70	LTL122M35040□VA
	1500	35×50	0.15	81	4.25	LTL152M35050□VA
250 (300)	150	22×25	0.15	840	0.92	LTJ151M22025□VA
	180	22×30	0.15	700	1.00	LTJ181M22030□VA
	180	25×25	0.15	700	1.00	LTJ181M25025□VA
	220	22×35	0.15	573	1.25	LTJ221M22035□VA
	220	25×30	0.15	573	1.25	LTJ221M25030□VA
	270	22×35	0.15	467	1.30	LTJ271M22035□VA
	270	25×30	0.15	467	1.30	LTJ271M25030□VA
	270	30×25	0.15	467	1.30	LTJ271M30025□VA
	330	22×40	0.15	382	1.64	LTJ331M22040□VA
	330	25×30	0.15	382	1.64	LTJ331M25030□VA
	330	30×25	0.15	382	1.64	LTJ331M30025□VA
	390	22×45	0.15	323	1.90	LTJ391M22045□VA
	390	25×35	0.15	323	1.90	LTJ391M25035□VA
	470	22×50	0.15	268	2.20	LTJ471M22050□VA
	470	25×45	0.15	268	2.20	LTJ471M25045□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
250 (300)	470	30×35	0.15	268	2.20	LTJ471M30035□VA
	470	35×25	0.15	268	2.20	LTJ471M35025□VA
	560	25×45	0.15	225	2.40	LTJ561M25045□VA
	560	30×35	0.15	225	2.40	LTJ561M30035□VA
	680	30×40	0.15	185	2.80	LTJ681M30040□VA
	680	35×30	0.15	185	2.80	LTJ681M35030□VA
	820	30×45	0.15	154	3.20	LTJ821M30045□VA
	820	35×35	0.15	154	3.20	LTJ821M35035□VA
	1000	35×40	0.15	126	3.70	LTJ102M35040□VA
	1200	35×45	0.15	105	4.10	LTJ122M35045□VA
	1500	35×50	0.15	84	4.60	LTJ152M35050□VA
400 (450)	68	22×25	0.15	1366	0.62	LTG680M22025□VA
	100	22×30	0.15	929	0.81	LTG101M22030□VA
	100	25×25	0.15	929	0.83	LTG101M25025□VA
	120	22×35	0.15	774	0.93	LTG121M22035□VA
	150	22×40	0.15	619	1.20	LTG151M22040□VA
	150	25×30	0.15	619	1.20	LTG151M25030□VA
	150	30×25	0.15	619	1.20	LTG151M30025□VA
	180	22×45	0.15	516	1.30	LTG181M22045□VA
	180	25×35	0.15	516	1.30	LTG181M25035□VA
	180	30×30	0.15	516	1.30	LTG181M30030□VA
	180	35×25	0.15	516	1.30	LTG181M35025□VA
	220	22×50	0.15	422	1.50	LTG221M22050□VA
	220	25×40	0.15	422	1.50	LTG221M25040□VA
	220	30×35	0.15	422	1.50	LTG221M30035□VA
	270	25×45	0.15	344	1.70	LTG271M25045□VA
	270	30×40	0.15	344	1.70	LTG271M30040□VA
	270	35×30	0.15	344	1.70	LTG271M35030□VA
	330	30×45	0.15	282	2.10	LTG331M30045□VA
	330	35×35	0.15	282	2.10	LTG331M35035□VA
	390	30×50	0.15	238	2.30	LTG391M30050□VA
	390	35×40	0.15	238	2.30	LTG391M35040□VA
	470	35×50	0.15	198	2.70	LTG471M35050□VA
	560	35×50	0.15	166	3.00	LTG561M35050□VA
450 (500)	47	22×25	0.20	1976	0.52	LTE470M22025□VA
	68	22×30	0.20	1366	0.66	LTE680M22030□VA
	68	25×25	0.20	1366	0.66	LTE680M25025□VA
	100	22×35	0.20	929	0.90	LTE101M22035□VA
	100	25×30	0.20	929	0.90	LTE101M25030□VA
	100	30×25	0.20	929	0.90	LTE101M30025□VA
	120	22×40	0.20	774	1.10	LTE121M22040□VA
	120	25×35	0.20	774	1.10	LTE121M25035□VA
	150	22×50	0.20	919	1.30	LTE151M22050□VA
	150	25×40	0.20	619	1.30	LTE151M25040□VA
	150	30×30	0.20	619	1.30	LTE151M30030□VA
	180	25×45	0.20	516	1.40	LTE181M25045□VA
	180	30×35	0.20	516	1.40	LTE181M30035□VA
	180	35×25	0.20	516	1.40	LTE181M35025□VA
	220	25×50	0.20	422	1.60	LTE221M25050□VA
	220	30×40	0.20	422	1.60	LTE221M30040□VA
	220	35×30	0.20	422	1.60	LTE221M35030□VA
	270	30×45	0.20	344	1.90	LTE271M30045□VA
	270	35×35	0.20	344	1.90	LTE271M35035□VA
	330	35×40	0.20	282	2.20	LTE331M35040□VA
	390	35×45	0.20	238	2.40	LTE391M35045□VA
	470	35×50	0.20	198	2.80	LTE471M35050□VA
500 (550)	47	22×25	0.20	2315	0.51	LTC470M22025□VA
	68	22×30	0.20	1600	0.65	LTC680M22030□VA

*产品编码中□内为产品端子引出型式代码

*□Enter the appropriate terminal code

◆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
500 (550)	68	25×25	0.20	1600	0.65	LTC680M25025□VA
	100	25×35	0.20	1088	0.86	LTC101M25035□VA
	100	30×25	0.20	1088	0.86	LTC101M30025□VA
	120	25×40	0.20	907	0.95	LTC121M25040□VA
	120	30×30	0.20	907	0.95	LTC121M30030□VA
	120	35×25	0.20	907	0.95	LTC121M35025□VA
	150	25×45	0.20	725	1.10	LTC151M25045□VA
	150	30×35	0.20	725	1.10	LTC151M30035□VA
	180	30×40	0.20	605	1.40	LTC181M30040□VA
	180	35×30	0.20	605	1.30	LTC181M35030□VA
	220	30×45	0.20	495	1.60	LTC221M30045□VA
	220	35×35	0.20	495	1.50	LTC221M35035□VA
	270	30×50	0.20	403	1.80	LTC271M30050□VA
	270	35×40	0.20	403	1.70	LTC271M35040□VA
	330	30×50	0.20	330	2.00	LTC331M30050□VA
	330	35×45	0.20	330	1.90	LTC331M35045□VA
	390	35×50	0.20	279	2.30	LTC391M35050□VA
	470	35×60	0.20	232	2.50	LTC471M35060□VA

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*□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，随着升温而发生性能劣化。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.