

LT Series

+105°C, High Ripple Current (高纹波), Long Life Assurance (长寿命) Low Impedance (低阻抗品)

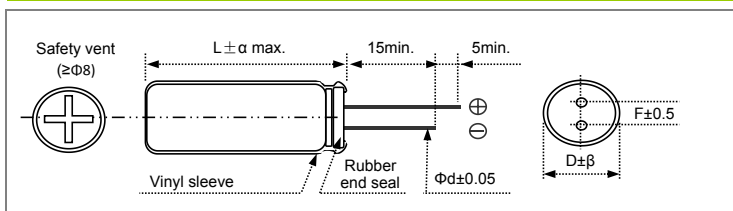
FEATURES 特点

- Used in communication equipments, switching power supply, industrial measuring instruments, light emitting diode lamp(LED) drive source etc.
- Long Life time: 3000~10,000 hours at 105°C.

SPECIFICATIONS 规格表

Item 项目	Performance Characteristics 特性参数										
Operation Temperature Range 工作温度范围	-40 to +105°C										
Rated Working Voltage Range 额定电压范围	6.3 to 100V										
Nominal Capacitance Range 静电容量范围	10 to 3300µF										
Capacitance Tolerance 静电容量允许偏差	±20%(120Hz, +20°C)										
Leakage Current 漏电流	LC ≤ 0.01CV or 3(µA) Whichever is greater measured after 2 minutes application of rated working voltage at +20 °C 施加额定工作电压充电2分钟后读数, 二者取大值。 [C: 静电容量(uF), V: 额定电压(V)]										
Dissipation Factor (tan δ) 损失角正切值 (120Hz, +20°C)	Working Voltage(V)	6.3	10	16	25	35	50	63(80)	100		
	tan δ(max)	0.22	0.19	0.16	0.14	0.12	0.1	0.09	0.08		
	For capacitance value > 1000µF, add 0.02 per another 1000µF 标称容量值超过1000uF, 则每增加1000uF, 损失角正切值增加0.02										
Low Temperature characteristics 温度特性(阻抗比)	Impedance ratio max. at 120 Hz 阻抗比最大值										
	Working Voltage(V)	6.3	10	16	25	35	50	63(80)	100		
	Z(-25°C)/ Z(+20°C)	4	3	2	2	2	2	2	2		
	Z(-40°C)/ Z(+20°C)	8	6	4	3	3	3	3	3		
High Temperature Loading (Endurance) 高温负荷寿命(耐久性)	Test conditions 试验条件					Post test requirements at +20°C 试验后特性应满足如下要求					
	Duration 持续时间	ΦD	5~6.3	8~10	≥13		Leakage current 漏电流	≤Initial specified value 初始规格值			
		6.3~10 WV	3,000H	4,000H	5,000H			Cap. Change 静电容量变化率	within ±25% of initial measured value 初始测试值的±25%内		
	16~100 WV	5,000H	6,000H	8~10KH		D.F.(tan δ) 损失角正切值	≤200% of initial specified value 2倍初始规格值				
	Ambient temp. 环境温度	+105°C					Before test requirement: Resumed 16 hours at normal temperature 测试前将电容在常温中放置16小时				
Applied voltage 施加电压	DC voltage with maximum permissible ripple current specified at +105°C 施加直流电压与额定纹波电流(所加电压峰值[DC+AC]不超过额定工作电压)										
Shelf Life 高温储存寿命	Test conditions 试验条件					Post test requirements at +20°C 试验后特性应满足如下要求					
	Duration 持续时间	1,000 hours					Leakage current 漏电流	≤Initial specified value 初始规格值			
	Ambient temp. 环境温度	+105°C					Cap. Change 静电容量变化率	within ±25% of initial measured value 初始测试值的±25%内			
	Applied voltage 施加电压	(None) 无					D.F.(tan δ) 损失角正切值	≤200% of initial specified value 2倍初始规格值			
♦(Before the measurements, the capacitor shall be pretreated by applying DC working voltage for 30min, after discharged and then stored under standard atmospheric conditions for 24-48 hours) 测试前应将电容在常温中施加工作电压30分钟, 放电后在标准气压下放置24~48小时											
Other 其他	JIS C-5101 (IEC 60384)										

CASE SIZE TABLE 尺寸图 (Unit : mm)



ΦD	5	6.3	8(L<20)	8(L≥20)	10	13	≥16
F	2.0	2.5	3.5		5.0	5.0	7.5
Φd	0.5		0.5 or 0.6		0.6	0.6	0.8
α	(L<20) 1.5				(L≥20) 2.0		
β	(D<20) 0.5				(D≥20) 1.0		

Multiplier for Ripple Current vs. Frequency 纹波电流频率修正系数

Frequency Coefficient 频率系数

Cap(µF)	50 Hz	120 Hz	300 Hz	1k Hz	100k Hz
15~33	0.45	0.55	0.70	0.90	1.00
39~330	0.60	0.70	0.85	0.95	1.00
470~1000	0.65	0.75	0.90	0.98	1.00
1200~3900	0.75	0.80	0.95	1.00	1.00

LT Series

+105°C, High Ripple Current (高纹波), Long Life Assurance (长寿命) Low Impedance (低阻抗品)

STANDARD RATINGS 标准品一览表

Voltage(Code)		6.3V(0J)			10V(1A)			16V(1C)		
Cap.(μF)	Code	Case Size	Impedance	R.C	Case Size	Impedance	R.C	Case Size	Impedance	R.C
100	101				6.3×12	0.270	290	5×11	0.350	180
120	121							6.3×12	0.320	230
220	221				6.3×12	0.220	340	6.3×12	0.220	340
330	331	6.3×12	0.220	340	8×12	0.200	390	8×12	0.130	640
470	471				8×12	0.130	500	8×16	0.087	840
								10×13	0.080	865
560	561	8×12	0.180	450	8×12	0.120	660	10×13	0.075	900
680	681	8×12	0.130	640	8×16	0.087	840	8×20	0.069	1050
					10×13	0.080	865	10×16	0.060	1210
820	821	10×13	0.080	865				8×20	0.065	1150
1000	102	8×16	0.087	840	8×16	0.075	900	10×20	0.046	1400
					8×20	0.069	1050			
					10×16	0.060	1210			
1200	122	8×20	0.069	1050	10×20	0.046	1400	10×25	0.042	1650
		10×16	0.060	1210						
1500	152	10×20	0.046	1400	10×20	0.045	1500	10×30	0.031	1910
					10×25	0.042	1650	13×21	0.035	1900
2200	222	10×25	0.042	1650	10×30	0.031	1910	13×21	0.045	2000
					13×21	0.035	1900	13×25	0.030	2124
3300	332	13×21	0.035	1900	13×25	0.030	2124			

Voltage(Code)		25V(1E)			35V(1V)			50V(1H)		
Cap.(μF)	Code	Case Size	Impedance	R.C	Case Size	Impedance	R.C	Case Size	Impedance	R.C
4.7	4P7							5×11	2.000	35
10	010							5×11	1.400	50
								6.3×12	1.200	75
22	022							5×11	1.200	80
								6.3×12	0.750	140
47	047	5×11	0.45	250	6.3×12	0.95	320	6.3×12	0.650	160
56	056				6.3×12	0.920	340	6.3×12	0.300	295
68	068				8×12	0.850	380			
100	101	6.3×12	0.220	340	6.3×15	0.600	450	8×12	0.350	555
					8×12	0.300	500	8×14	0.150	570
120	121							8×16	0.150	600
150	151				8×12	0.130	640	10×13	0.120	760
220	221	8×12	0.130	640	8×16	0.087	840	10×16	0.084	1050
		8×14	0.110	650	10×13	0.080	865	10×20	0.080	1100
330	331	8×16	0.087	840	10×16	0.060	1210	10×20	0.070	1250
		10×13	0.800	865				10×25	0.065	1440
470	471	8×20	0.069	1050	10×20	0.046	1400	10×30	0.060	1690
		10×16	0.060	1210				13×21	0.055	1660
560	561				10×25	0.042	1650	13×25	0.052	1950
680	681	10×20	0.046	1400	10×30	0.031	1910	13×25	0.050	2000
					13×21	0.035	1900			
820	821	10×25	0.042	1650	13×21	0.040	1950	16×21	0.040	2300
1000	102	10×20	0.040	1560	13×21	0.040	1980	13×25	0.038	1840
		10×30	0.031	1910	13×25	0.030	2124	16×25	0.035	2500
		13×21	0.035	1900						
		13×17	0.038	1800						
1500	152	13×25	0.030	2124						
1800	182				16×21	0.055	1980			
2200	222	13×21	0.032	2350	16×25	0.025	2500			

Maximum Allowable Ripple Current (mA rms) at 105°C 100kHz

Case Size ΦD x L(mm)

Maximum Impedance (Ω) at 20°C 100kHz

Specifications are subject to change without notice. Should a safety or technical concern arise regarding the product, please be sure to contact our sales offices or agents immediately

LT Series

+105°C, High Ripple Current (高纹波), Long Life Assurance (长寿命) Low Impedance (低阻抗品)

STANDARD RATINGS 标准品一览表

Voltage(Code)		63V(1J)			80V(1K)			100V(2A)		
Cap.(μF)	Code	Case Size	Impedance	R.C	Case Size	Impedance	R.C	Case Size	Impedance	R.C
10	010							8×12	2.00	80
15	015							6.3×12	0.960	115
22	022							8×12	0.504	232
33	033	6.3×12	0.960	115				8×12	0.500	260
47	047	8×12	0.900	130				8×14	0.450	290
								10×13	0.344	314
								10×17	0.330	335
56	056	8×12	0.504	232			8×20	0.264	362	
68	068						10×16	0.248	357	
82	082	8×16	0.360	300				10×20	0.168	466
		10×13	0.344	314						
100	101	8×14	0.423	250				10×16	0.167	420
		8×16	0.400	270				10×20	0.165	490
		10×13	0.385	280				10×25	0.160	531
120	121						10×20	0.145	510	
150	151	8×20	0.264	340				10×20	0.140	600
		10×13	0.260	345						
		10×16	0.248	357				13×21	0.128	690
180	181	10×20	0.168	466			13×25	0.096	922	
220	221	10×20	0.165	490	13×21	0.163	520	13×25	0.090	970
		10×25	0.160	531						
270	271	13×21	0.140	550						
330	331	10×20	0.065	600						
		10×30	0.100	880						
		13×21	0.120	870						
		13×25	0.096	922						
470	471	13×21	0.090	940				16×25	0.071	1520
		13×25	0.085	960						
560	561	13×25	0.083	980			18×35	0.062	1900	
680	681	13×25	0.080	1000						
		16×25	0.050	1800						
1000	102	16×25	0.070	1300						
2200	222	18×35	0.060	1850						

Maximum Allowable Ripple Current (mA rms) at 105°C 100kHz

Case Size ΦD x L(mm)

Maximum Impedance (Ω) at 20°C 100kHz

Multiplier for Ripple Current vs. Temperature 纹波电流温度修正系数

Temperature Coefficient 温度系数

Temperature °C	45	60	70	85	95	105
Multiplier	1.8	1.5	1.45	1.3	1.2	1.0

Specifications are subject to change without notice. Should a safety or technical concern arise regarding the product, please be sure to contact our sales offices or agents immediately