

LT Series

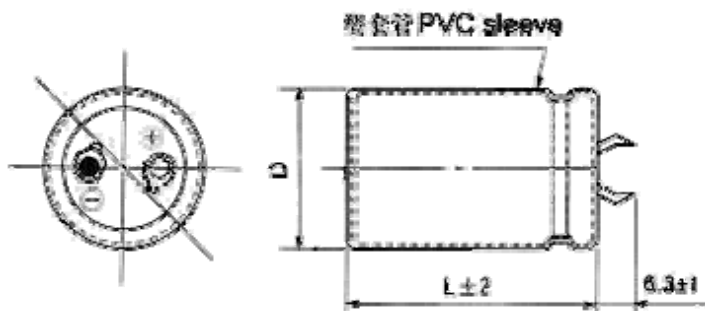
Snap-in 105°C, standard
基板自立型 105°C, 標準品

Suit for use in filtering circuit of color TV, computer and home appliance
適用於彩電、電腦、功放、儀表儀器、家用電器等電源濾波

Specifications

Items 項目	Characteristics 特性																									
Operating Temperature Range 使用溫度範圍	-40 to +105°C	-25 to +105°C																								
Rated Voltage Range 額定電壓範圍	6.3 to 100VDC	160 to 450 VDC																								
Capacitance Tolerance 靜電容量容許差	±20%(M) (at 25°C, 120Hz)																									
Leakage Current 漏電流	I=0.02CV Where ,I: Leakage current(μA),C: Nominal capacitance(μF),V: Rated voltage(V)																									
Dissipation Factor (tan δ) 損失角正切(tan δ)	(at 25°C, 120Hz)																									
	<table border="1" style="width: 100%; text-align: center;"> <tr> <td>Rated voltage (V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63~100</td> <td>160~250</td> <td>350~450</td> </tr> <tr> <td>DF(tan δ)</td> <td>0.60</td> <td>0.50</td> <td>0.40</td> <td>0.30</td> <td>0.25</td> <td>0.20</td> <td>0.20</td> <td>0.15</td> <td>0.20</td> </tr> </table>		Rated voltage (V)	6.3	10	16	25	35	50	63~100	160~250	350~450	DF(tan δ)	0.60	0.50	0.40	0.30	0.25	0.20	0.20	0.15	0.20				
Rated voltage (V)	6.3	10	16	25	35	50	63~100	160~250	350~450																	
DF(tan δ)	0.60	0.50	0.40	0.30	0.25	0.20	0.20	0.15	0.20																	
	Above tan δ specifications shall be 0.02 added every 1000 μF for capacitor exceeding 1000 μF. Note: *0.20 for ΦD=35mm & L=20mm																									
Low Temperature Characteristics 低溫特性	<table border="1" style="width: 100%; text-align: center;"> <tr> <td>Rated voltage (V)</td> <td>6.3~16</td> <td>25</td> <td>35</td> <td>50,63</td> <td>80,100</td> <td>160,400</td> <td>450</td> </tr> <tr> <td>Z(-25°C)/(25°C)</td> <td>4</td> <td>3</td> <td>3</td> <td>2</td> <td>2</td> <td>4</td> <td>8</td> </tr> <tr> <td>Z(-40°C)/(25°C)</td> <td>15</td> <td>10</td> <td>8</td> <td>6</td> <td>5</td> <td>-</td> <td>-</td> </tr> </table> <p style="text-align: right;">(at 120Hz)</p>		Rated voltage (V)	6.3~16	25	35	50,63	80,100	160,400	450	Z(-25°C)/(25°C)	4	3	3	2	2	4	8	Z(-40°C)/(25°C)	15	10	8	6	5	-	-
Rated voltage (V)	6.3~16	25	35	50,63	80,100	160,400	450																			
Z(-25°C)/(25°C)	4	3	3	2	2	4	8																			
Z(-40°C)/(25°C)	15	10	8	6	5	-	-																			
Load Life 高溫負荷特性	<p>The following specifications shall be satisfied when the capacitors are restored to 25°C after the rated voltage with maximum ripple current is applied for 2000 hours at 105°C.</p> <p>Capacitance change ≤ ±20% of the initial value DF (tan δ) ≤ 200% of the initial specified value Leakage current ≤ The initial specified value</p>																									
Shelf Life 高溫貯存特性	<p>The following specifications shall be satisfied when the capacitors are restored to 25°C after exposing them for 1000 hours at 105°C without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurements.</p> <p>Capacitance change ≤ ±20% of the initial value DF (tan δ) ≤ 150% of the initial specified value Leakage current ≤ The initial specified value</p>																									

Pitch Dimension (mm)



D±1	22~35
L±2	25-55
F±0.5	10

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Case size $\Phi D * L$ (mm)

Ripple current (mA rms/105°C, 120Hz)

Standard Ratings

$\mu F \backslash V_{DC}$	6.3				10				16			
8200									22*30	1700	25*25	1700
10000					22*25	1550			22*30	1950	25*25	1950
12000	22*25	1550			22*30	1750			22*35	2200	25*30	2250
15000	22*30	1700	25*25	1700	22*30	1900	25*25	1900	22*40	2550	25*35	2600
18000	22*30	1950	25*25	1950	22*35	2200	25*30	2250	22*45	2900	25*40	2900
22000	22*35	2250	25*30	2250	22*40	2500	25*35	2550	25*45	3300	30*35	3300
27000	22*40	2550	25*35	2550	22*50	2950	25*40	2900	25*50	3800	30*40	3750
33000	22*50	2900	25*40	2950	25*45	3300	30*35	3300	30*45	4300	35*35	4250
39000	30*35	3250	35*30	3300	25*50	3700	30*40	3700	30*50	4800	35*40	4800
47000	25*50	3700	30*40	3700	30*45	4200	35*35	3800			35*45	5450
56000	30*45	4150	35*35	4100	30*50	4650	35*40	4650				
68000	30*50	4700	35*40	4700			35*50	5500				
82000			35*45	5300								

$\mu F \backslash V_{DC}$	25				35				50			
2200									22*30	1550	25*25	1550
3300									22*30	1700	25*25	1700
3900					22*25	1400			22*35	1950	25*30	1850
4700	22*25	1500			22*30	1550	25*25	1550	22*40	2150	25*25	2200
5600	22*30	1650	25*25	1650	22*35	1800	25*25	1800	22*45	2450	30*30	2450
6800	22*30	1850	25*25	1850	22*35	1950	25*30	1950	22*50	2750	30*50	2700
8200	22*35	2100	25*30	2100	22*40	2200	25*35	2250	25*50	3300	30*40	3300
10000	22*40	2400	25*35	2400	22*50	2550	30*35	2500	30*45	3600	35*35	3550
12000	22*45	2700	25*40	2750	25*45	2850	30*35	2900	30*50	4050	35*40	4000
15000	25*45	3150	30*35	3150	25*50	3250	30*40	3250			35*45	4550
18000	25*40	3550	30*40	3550	30*45	3700	35*35	3650			35*50	5050
22000	30*45	4050	35*35	3800			35*40	4350				
27000			35*45	4700			35*50	4900				
33000			35*50	5400								

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Standard Ratings

Case size $\Phi D * L$ (mm)
Ripple current (mA rms/105°C, 120Hz)

$\mu F \backslash V_{DC}$	63				80				100			
680									22*25	1050		
820					22*25	1100			22*30	1250	25*25	1250
1000					22*30	1200	25*25	1200	22*35	1420	25*30	1420
1200	22*25	1200			22*30	1400	25*25	1400	22*40	1580	25*35	1580
1500	22*30	1300	25*25	1300	22*35	1600	25*30	1600	22*45	1950	25*40	1950
1800	22*30	1500	25*25	1500	22*40	1800	25*35	1850	25*45	2200	30*35	2200
2200	22*35	1700	25*30	1700	22*45	2050	25*35	2000	25*50	2500	30*40	2500
2700	22*40	2000	25*35	2000	25*45	2350	30*35	2350	30*45	2900	35*35	2900
3300	22*50	2220	25*40	2220	25*50	2700	30*40	2700	30*50	3250	35*40	3250
3900	25*45	2550	30*35	2550	30*45	3000	35*35	3000			35*45	3600
4700	25*50	2800	30*40	2800	30*50	3400	35*40	3400			35*50	3800
5600	30*45	3200	35*35	3200			35*45	3800				
6800	30*50	3650	35*40	3650			35*50	3900				
8200			35*45	3900								
10000			35*50	4400								

$\mu F \backslash V_{DC}$	160				180				200			
150												
180												
220									22*25	800		
270	22*25	1000			22*25	1000			22*25	1000		
330	22*30	1200	25*25	1200	22*30	1200	25*25	1200	22*36	1200	25*25	1200
470	22*35	1400	25*30	1400	22*35	1400	25*30	1400	22*40	1400	25*35	1400
560	22*40	1500	25*30	1500	22*40	1500	25*35	1500	22*45	1550	25*35	1550
680	22*45	1700	25*35	1700	25*40	1740	30*30	1740	22*50	1750	25*40	1750
820	22*50	1950	25*40	1950	22*50	2000	25*45	2000	25*50	2050	30*35	2050
1000	25*45	2200	30*35	2200	25*50	2250	30*40	2250	25*55	2300	35*35	2300
1200	30*40	2450	35*35	2450	30*45	2500	35*35	2500	30*50	2600	35*40	2600
1500	30*45	2800	35*40	2800	30*50	2900	35*40	2900			35*45	3100
1800			35*45				35*45	3350			35*50	3500
2200			35*50				35*50	3800				

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Case size $\Phi D * L$ (mm)

Ripple current (mA rms/105°C, 120Hz)

Standard Ratings

μF \ V _{DC}	250				350				400			
68									22*25	500		
82					22*25	550			22*25	600		
100					22*30	700	25*25	700	22*30	650	25*25	650
120					22*35	750	25*30	750	22*35	700	25*30	700
150	22*25	650			22*45	800	25*30	850	22*40	800	25*35	850
180	22*25	800			22*50	900	25*35	900	22*50	950	25*40	950
220	22*30	950	25*25	950	25*45	1050	25*40	1050	25*45	1050	30*35	1050
270	22*35	1150	25*30	1150	30*40	1200	30*35	1200	25*50	1200	30*40	1200
330	22*40	1250	25*35	1200	30*45	1350	35*35	1350	30*45	1400	35*35	1350
390	22*45	1500	25*35	1500			35*35	1500	30*50	1550	35*40	1550
470	22*50	1550	25*40	1550			35*40	1700			35*45	1750
560	25*45	1800	30*40	1800			35*45	1900				
680	30*45	1950	35*35	2000								
820	30*50	2150	35*40	2100								
1000			35*45	2300								
1200			35*50	2450								

μF \ V _{DC}	450			
47				
56	22*25	400		
68	22*30	500	25*25	500
82	22*35	550	25*30	550
100	22*40	650	25*30	600
120	22*45	700	25*35	700
150	22*50	800	25*40	800
180	25*45	850	30*35	850
220	25*50	1000	30*40	1000
270	30*45	1150	35*35	1150
330	30*50	1400	35*40	1400
390			35*45	1550
470			35*50	1700

Ripple Current Multipliers

Temperature Multipliers

Ambient temp (°C)	65	85
Factor	1.23	1

Frequency Multipliers

Freq.(Hz)	50	120	300	1K	10K	50K
6.3~50VDC	0.95	1	1.03	1.05	1.08	1.08
63~100VDC	0.92	1	1.07	1.13	1.19	1.20
160~250VDC	0.81	1	1.17	1.32	1.45	1.50
315~450VDC	0.77	1	1.16	1.30	1.41	1.43