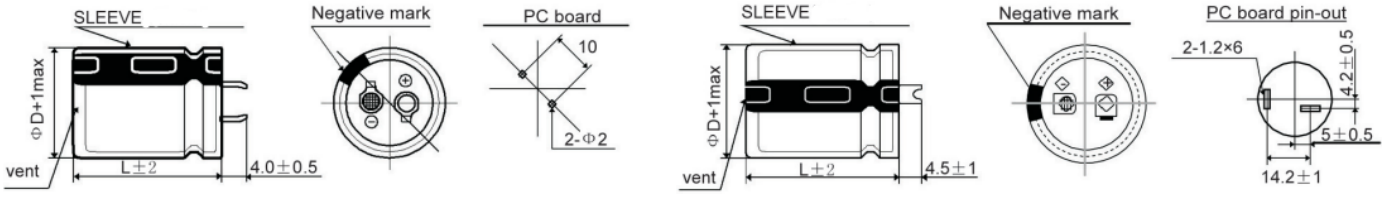
LT Series

- **Downsize and long life series**
- **Endurance :5,000 hours at +105℃**
- **RoHS Compliant**

◆ SPECIFICATIONS

Items	Characteristics			
Temperature Range	-25 to +105℃			
Rated Voltage Range	160 to 450 V.DC			
Capacitance Tolerance	±20%(M)			(at20℃,120Hz)
Leakage Current	$I \le 3\sqrt{CV}$ Where,I: Max. leakage current (u A),C: Nominal capacitance(u F), V: Rated voltage(V)			(at 20℃ after 5 minutes)
Dissipation Factor (tan δ)	Rated voltage(V dc)	160 to 400 V	420 to 450V	(at 20℃,120Hz)
	tan δ(Max.)	0.15	0.20	
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage(V dc)	160 to 250 V	315 to 400V	(at 120Hz)
	Z(-25℃)/Z(+20℃)	4	8	
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated ripple current is applied for 5,000 hours at 105℃.			
	Capacitance change	≤20% of the initial value		
	D.F.(tanδ)	≤200% of the initial specified value		
	Leakage current	≤The initial specified value		
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1,000 hours at 105℃ without voltage applied.			
	Capacitance change	≤20% of the initial value		
	D.F.(tanδ)	≤200% of the initial specified value		
	Leakage current	≤200% of The initial specified value		

◆ DIMENSIONS (mm)



◆ RATED RIPPLE CURRENT MULTIPLIERS

Frequency correction factor for ripple current **(Hz)**

W.V	120	1K	10K	100K
160 to 250	1.00	1.32	1.45	1.50
315 to 450	1.00	1.30	1.41	1.43

The endurance of capacitors is shorted with internal heating produced by ripple current at the rate of halving the lifetime with every 5℃ rise. When long life performance is required in actual use, the r.ms ripple current has to be reduced.

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◆ **STANDARD RATINGS**

Ripple current(A r.ms /105℃, 120Hz)

WV	160 (2C)								180 (2Q)							
ΦD / u F	22		25		30		35		22		25		30		Φ35	
330									22×25	1.21						
390	22×25	1.32														
470									22×30	1.52	25x25	1.52				
560	22×30	1.66	25x25	1.68					22×35	1.70	25x30	1.78				
680	22×35	1.87	25x30	1.88	30x25	1.96			22×40	1.91	25x30	1.88				
820	22×40	2.09							22x45	1.99	25x35	2.16	30x30	2.17	35x25	2.31
1000	22×50	2.41	25x35	2.38	30x30	2.40	35x25	2.55	22x50	2.25	25x45	2.47	30x35	2.46		
1200			25x45	2.71	30x40	2.77	35x30	2.86			25x50	2.75	30x40	2.77	35x30	2.86
1500			25x50	3.08	30x45	3.17	35x35	3.22					30x50	3.22	35x35	3.22
1800					30x50	3.53	35x40	3.66							35x45	3.74
2200							35x45	4.14							35x50	4.22
2700							35x50	4.68								
WV	200 (2D)								220 (2N)							
ΦD / u F	22		25		30		35		22		25		30		35	
270	22×25	1.10							22×25	1.10						
330									22x30	1.19						
390	22×30	1.38	25x25	1.39							25x25	1.39				
470	22×35	1.55							22×35	1.55	25x30	1.56	30x25	1.63		
560	22×40	1.73	25x30	1.71	30x25	1.78			22×40	1.73			30x30	1.79		
680	22x45	1.81	25x35	1.87	30x30	1.98	35x25	2.10	22x50	1.99	25x35	1.96	30x35	2.02	35x25	2.10
820	22x50	2.18	25x40	2.09	30x35	2.22					25x45	2.24	30x40	2.29	35x30	2.36
1000			25x50	2.39	30x40	2.53	35x30	2.61			25x50	2.51	30x45	2.59	35x35	2.63
1200					30x50	2.88	35x35	2.88					30x50	2.88	35x40	2.98
1500							35x40	3.34							35x45	3.41
1800							35x50	3.82							35x50	3.82
WV	250 (2E)								315 (2F)							
ΦD / u F	22		25		30		35		22		25		30		35	
150									22×25	0.80						
180									22×30	0.92	25x25	0.94				
220	22x25	1.01							22×35	1.04			30x25	1.17		
270	22x30	1.20							22×40	1.18	25x30	1.19				
330			25x25	1.32					22x45	1.33	25x35	1.37	30x30	1.40	35x25	1.49
390	22x35	1.44	25x30	1.43	30x25	1.51			22x50	1.48	25x40	1.52				
470	22x40	1.62									25x45	1.70	30x35	1.71	35x30	1.82
560	22x50	1.84	25x35	1.78	30x30	1.83	35x25	1.91			25x50	1.88	30x45	1.97	35x35	2.00
680			25x45	2.04	30x35	2.06	35x30	2.15					30x50	2.21	35x40	2.29
820			25x50	2.28	30x45	2.39	35x35	2.38							35x45	2.57
1000					30x50	2.68	35x40	2.72							35x50	2.89
1200							35x45	3.05								
1500							35x50	3.49								

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◆ **STANDARD RATINGS**

Ripple current(A r.ms /105℃, 120Hz)

WV	350 (2V)								400 (2G)							
ΦD / u F	22		25		30		35		22		25		30		35	
100									22×25	0.66						
120	22×25	0.72							22×30	0.75						
150	22×30	0.84							22×35	0.86	25x25	0.86				
180	22×35	0.94							22×40	0.96	25x30	0.97	30x25	1.02		
220	22×40	1.06	25x30	1.07	30x25	1.13			22x45	1.09	25x35	1.12	30x25	1.22		
270	22x45	1.20	25x35	1.24	30x30	1.27	35x25	1.35	22x50	1.23	25x45	1.29	30x30	1.27		
330	22x50	1.36	25x40	1.39	30x35	1.43					25x50	1.44	30x35	1.43	35x30	1.52
390			25x45	1.55	30x40	1.60	35x30	1.66					30x40	1.60	35x35	1.67
470			25x50	1.72	30x45	1.81	35x35	1.83					30x50	1.84	35x40	1.90
560					30x50	2.00	35x40	2.07							35x45	2.12
680							35x45	2.34							35x50	2.39
820							35x50	2.62								

WV	420 (2T)								450 (2W)							
ΦD / u F	22		25		30		35		22		25		30		35	
82									22×25	0.59						
100	22×25	0.66							22×30	0.69	25x25	0.70				
120	22×30	0.75	25x25	0.77					22×35	0.77						
150	22×35	0.86							22x45	0.90	25x35	0.92	30x25	0.93		
180	22x45	0.98	25x35	1.01	30x25	1.02			22x50	1.01	25x40	1.03	30x30	1.03	35x25	1.10
220	22x50	1.11	25x40	1.14	30x30	1.14	35x25	1.22			25x45	1.16	30x35	1.17	35x30	1.24
270			25x45	1.29	30x35	1.30	35x30	1.38			25x50	1.31	30x40	1.33	35x35	1.39
330			25x50	1.44	30x40	1.48	35x35	1.54					30x45	1.51		
390					30x45	1.64	35x40	1.73					30x50	1.67	35x45	1.77
470					30x50	1.84	35x45	1.94							35x50	1.98
560							35x50	2.17								