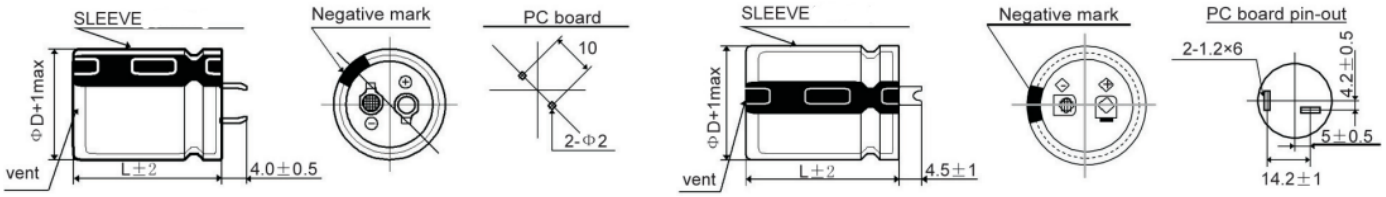
LV Series

- **High reliability, Extremely long life series**
- **Endurance with ripple current:10000 hours at +105℃**
- **RoHS Compliant**

◆ SPECIFICATIONS

Items	Characteristics			
Temperature Range	-25 to +105℃			
Rated Voltage Range	200 to 450 V.DC			
Capacitance Tolerance	±20%(M)			(at20℃,120Hz)
Leakage Current	$I \leq 3\sqrt{CV}$ (at 20℃ after 5 minutes) Where,I: Max. leakage current (μA),C: Nominal capacitance(μF), V: Rated voltage(V)			
Dissipation Factor (tan δ)	Rated voltage(V dc)	200 to 400 V	450V	(at 20℃,120Hz)
	tan δ(Max.)	0.15	0.20	
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage(V dc)	200 to 400 V	450V	(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 10,000 hours at 105℃.			
	Capacitance change	≤20% of the initial value		
	D.F.(tanδ)	≤250% 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	≤15% of the initial value		
	D.F.(tanδ)	≤150% 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
200 to 250	1.00	1.32	1.45	1.50
400 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 rms /105℃, 120Hz)

WV	200 (2D)								250 (2E)							
ΦD / u F	22		25		30		35		22		25		30		35	
180									22×30	0.91	25×25	0.90				
220	22×25	1.01							22×30	1.01	25×25	1.00				
270	22×30	1.09	25×25	1.12					22×35	1.11	25×30	1.10	30×25	1.12		
330	22×30	1.21	25×25	1.21					22×40	1.20	25×35	1.21	30×25	1.20		
390	22×35	1.32	25×30	1.29	30×25	1.31			22×45	1.30	25×35	1.32	30×30	1.33		
470	22×40	1.41	25×35	1.42	30×30	1.40					25×45	1.40	30×35	1.42	35×30	1.40
560	22×45	1.52	25×35	1.51	30×30	1.52					25×50	1.51	30×35	1.50	35×30	1.52
680			25×40	1.72	30×35	1.71							30×45	1.72	35×35	1.71
820			25×50	2.01	30×40	2.02	35×30	2.01					30×50	2.01	35×40	2.01
1000					30×45	2.20	35×35	2.21							35×45	2.22
1200					30×50	2.32	35×40	2.31							35×50	2.32
1500							35×50	2.51								

WV	400 (2G)								450 (2W)							
ΦD / u F	22		25		30		35		22		25		30		35	
39									22×25	0.37						
47									22×30	0.40						
56	22×25	0.51							22×35	0.47	25×25	0.48				
68	22×30	0.55	25×25	0.56					22×40	0.53	25×30	0.53				
82	22×35	0.64	25×25	0.65					22×45	0.56	25×35	0.56	30×25	0.56		
100	22×35	0.70	25×30	0.69					22×50	0.64	25×40	0.64	30×30	0.64		
120	22×40	0.75	25×35	0.76	30×25	0.75					25×45	0.72	30×30	0.72		
150	22×50	0.82	25×40	0.83	30×30	0.82					25×50	0.79	30×40	0.79	35×30	0.78
180			25×45	0.90	30×35	0.91	35×25	0.90					30×45	0.87	35×35	0.87
220			25×50	1.01	30×40	1.02	35×30	1.00					30×50	1.00	35×40	1.01
270					30×45	1.10	35×35	1.10							35×45	1.19
330					30×50	1.20	35×40	1.21							35×50	1.38
390							35×45	1.29								
470							35×50	1.35								