

# LV Series

- High reliability,Extremely long life series
- Load life 10,000 hours at 105°C
- RoHS Compliant

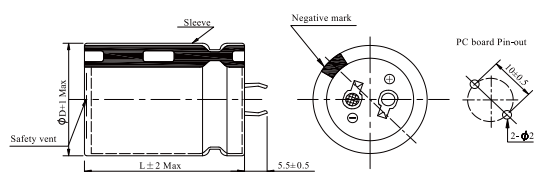


## ◆ SPECIFICATIONS

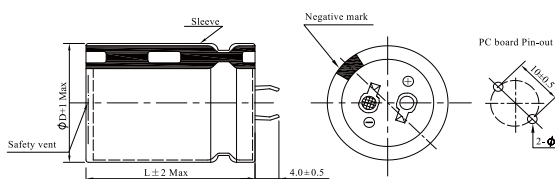
Item	Performance Characteristics										
Category Temperature Range	-25 ~ +105°C										
Working Voltage Range	200 ~ 450Vdc										
Capacitance Range	39 ~ 1,500µF										
Capacitance Tolerance	±20% (at 20°C and 120Hz)										
Dissipation Factor (tanδ) (at 20°C, 120Hz)	<table border="1"> <tr> <td>Rated Voltage (V)</td> <td>200</td> <td>250</td> <td>400</td> <td>450</td> </tr> <tr> <td>tanδ(Max)</td> <td>0.15</td> <td>0.15</td> <td>0.20</td> <td>0.20</td> </tr> </table>	Rated Voltage (V)	200	250	400	450	tanδ(Max)	0.15	0.15	0.20	0.20
Rated Voltage (V)	200	250	400	450							
tanδ(Max)	0.15	0.15	0.20	0.20							
Leakage Current	$I \leq 3 \sqrt{CV}$ I: Leakage current (µA) C: Rated capacitance (µF) V: Rated voltage (V) Impress the rated voltage for 5 minutes										
Low Temperature Characteristics Impedance Ratio(MAX)	<table border="1"> <tr> <td>Rated Voltage (V)</td> <td>200 ~ 400</td> <td>450</td> </tr> <tr> <td>Z(-25°C)/Z(+20°C)</td> <td>4</td> <td>8</td> </tr> </table> (at 120Hz)	Rated Voltage (V)	200 ~ 400	450	Z(-25°C)/Z(+20°C)	4	8				
Rated Voltage (V)	200 ~ 400	450									
Z(-25°C)/Z(+20°C)	4	8									
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for 10,000 hours at 105°C. <table border="1"> <tr> <td>Capacitance change</td> <td>≒ ±20% of the initial value</td> </tr> <tr> <td>Dissipation factor(tanδ)</td> <td>≒ 250% of the specified value</td> </tr> <tr> <td>Leakage current</td> <td>≒ specified value</td> </tr> </table>	Capacitance change	≒ ±20% of the initial value	Dissipation factor(tanδ)	≒ 250% of the specified value	Leakage current	≒ specified value				
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Dissipation factor(tanδ)	≒ 250% of the specified value										
Leakage current	≒ specified value										
Shelf Life	The following requirements shall be satisfied when the capacitor are restored to 20°C after the rated voltage applied for 1,000 hours at 105°C without voltage applied. <table border="1"> <tr> <td>Capacitance change</td> <td>≒ ±200% of the initial value</td> </tr> <tr> <td>Dissipation factor(tanδ)</td> <td>≒ 250% of the specified value</td> </tr> <tr> <td>Leakage current</td> <td>≒ 200% of the specified value</td> </tr> </table>	Capacitance change	≒ ±200% of the initial value	Dissipation factor(tanδ)	≒ 250% of the specified value	Leakage current	≒ 200% of the specified value				
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Leakage current	≒ 200% of the specified value										

## ◆ DIMENSIONS (mm)

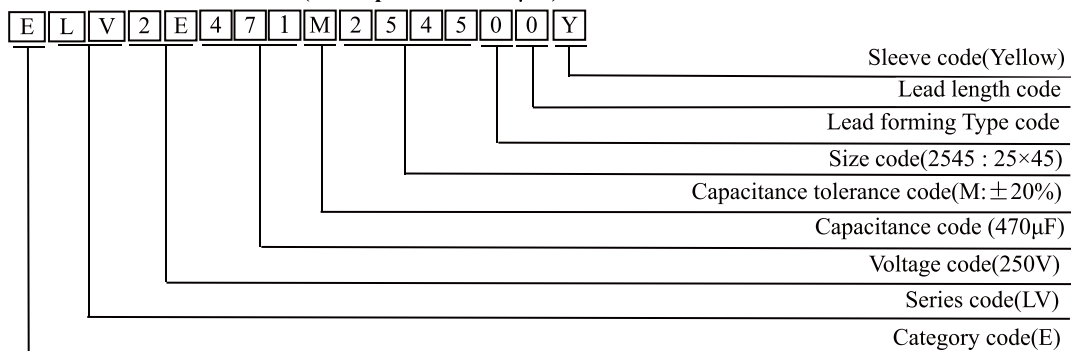
Terminal Code : 00 : Standard



Terminal Code :0D



## ◆ PART NUMBER SYSTEM( Example : 250V 470µF )



# LV Series

◆ Case size & Permissible rated ripple current: (mA rms) at 105°C / 120Hz.

Vdc ΦD μF	200								Vdc ΦD μF	250							
	Φ 22		Φ 25		Φ30		Φ35			Φ 22		Φ 25		Φ30		Φ35	
	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC		ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC
220	22×25	1010							180	22×30	910	25×25	900				
270	22×30	1090	25×25	1120					220	22×30	1010	25×25	1000				
330	22×30	1210	25×25	1210					270	22×35	1110	25×30	1100	30×25	1120		
390	22×35	1320	25×30	1290	30×25	1310			330	22×40	1200	25×35	1210	30×25	1200		
470	22×40	1410	25×35	1420	30×30	1400			390	22×45	1300	25×35	1320	30×30	1330		
560	22×45	1520	25×35	1510	30×30	1520			470			25×45	1400	30×35	1420	35×30	1400
680			25×40	1720	30×35	1710			560			25×50	1510	30×35	1500	35×30	1520
820			25×50	2010	30×40	2020	35×30	2010	680					30×45	1720	35×35	1710
1000					30×45	2200	35×35	2210	820					30×50	2010	35×40	2010
1200					30×50	2320	35×40	2310	1000							35×45	2220
1500							35×50	2510	1200							35×50	2320

Vdc ΦD μF	400								Vdc ΦD μF	450							
	Φ 22		Φ 25		Φ30		Φ35			Φ 22		Φ 25		Φ30		Φ35	
	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC		ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC
56	22×25	510							39	22×25	370						
68	22×30	550	25×25	560					47	22×30	400						
82	22×35	640	25×25	650					56	22×35	470	25×25	480				
100	22×35	700	25×30	690					68	22×40	530	25×30	530				
120	22×40	750	25×35	760	30×25	750			82	22×45	560	25×35	560	30×25	560		
150	22×50	820	25×40	830	30×30	820			100	22×50	640	25×40	640	30×30	640		
180			25×45	900	30×35	910	35×25	900	120			25×45	720	30×30	720		
220			25×50	1010	30×40	1020	35×30	1000	150			25×50	790	30×40	790	35×30	780
270					30×45	1100	35×35	1100	180					30×45	870	35×35	870
330					30×50	1200	35×40	1210	220					30×50	1000	35×40	1010
390							35×45	1290	270							35×45	1190
470							35×50	1350	330							35×50	1380

◆ RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Vdc	Frequency (Hz)			
	120	1K	10K	100K
200 ~ 250	1.00	1.32	1.45	1.50
400 ~ 450	1.00	1.30	1.41	1.43