

LQ series Snap-in Terminal Type, Standard



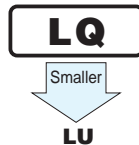
RCJ Approved



Anti-Solvent Feature
(Through 100V only)

Approved by Reliability Center for Electronic Component, Japan-Certification No. RCJ-03-25D

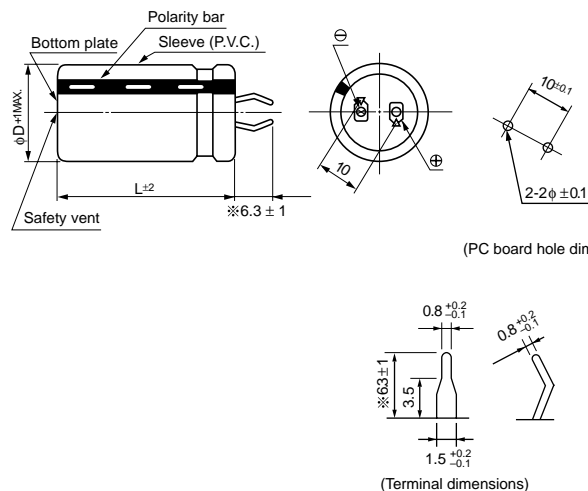
- Rated capacitances available based on the numerical values in E-12 series. (Size : $\phi 22 \sim \phi 35$)



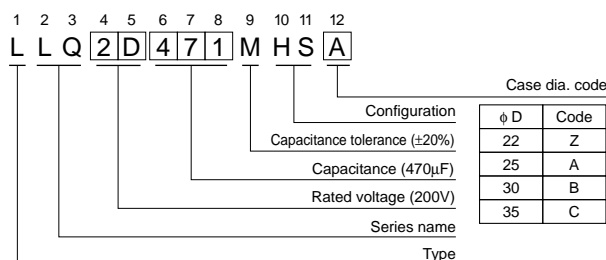
Specifications

Item	Performance Characteristics																											
Operating Temperature Range	-40 ~ +85°C (16 ~ 250V), -25 ~ +85°C (400 ~ 450V)																											
Voltage Range	16 ~ 450V																											
Capacitance Range	56 ~ 56000 μ F																											
Capacitance Tolerance	$\pm 20\%$ at 120Hz, 20°C																											
Leakage Current	$I \leq 3\sqrt{CV}$ (μ A) (After 5 minutes' application of rated voltage) [C: Capacitance(μ F), V: Voltage(V)]																											
tan δ	Measurement frequency : 120Hz, Temperature : 20°C																											
	<table border="1"> <thead> <tr> <th>Rated voltage(V)</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>80</th> <th>100</th> <th>160</th> <th>180</th> <th>200</th> <th>250</th> <th>400</th> <th>450</th> </tr> </thead> <tbody> <tr> <td>tan δ (MAX.)</td> <td>0.50</td> <td>0.40</td> <td>0.35</td> <td>0.30</td> <td>0.25</td> <td>0.20</td> <td>0.20</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.20</td> <td>0.20</td> </tr> </tbody> </table>	Rated voltage(V)	16	25	35	50	63	80	100	160	180	200	250	400	450	tan δ (MAX.)	0.50	0.40	0.35	0.30	0.25	0.20	0.20	0.15	0.15	0.15	0.15	0.20
Rated voltage(V)	16	25	35	50	63	80	100	160	180	200	250	400	450															
tan δ (MAX.)	0.50	0.40	0.35	0.30	0.25	0.20	0.20	0.15	0.15	0.15	0.15	0.20	0.20															
Stability at Low Temperature	Measurement frequency : 120Hz																											
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Load Life	After an application of DC voltage (in the range of rated DC voltage even after over-lapping the specified ripple current) for 2000 hours at 85°C, capacitors shall meet the characteristics requirements indicated at right.																											
Shelf Life	After leaving capacitors under no load at 85°C for 1000 hours, they meet the requirements listed at right.																											
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Marking	Printed with white color letter on black sleeve.																											
Applicable Standards	JIS C 5141 and JIS C 5102.																											

Drawing



Type numbering system (Example : 200V 470 μ F)



※ Shorter terminal (4.0 ± 0.5) is also available upon request.
Please refer to page 153 (LU series) for schematic of dimensions.

Frequency coefficient of allowable ripple current

Frequency(Hz)	50	60	120	1 k	10k ~	
Coeff.	16 ~ 100V	0.88	0.90	1.00	1.15	1.15
	160 ~ 250V	0.85	0.88	1.00	1.15	1.20
	400 ~ 450V	0.88	0.90	1.00	1.10	1.15

Minimum order quantity : 50pcs.

Dimension table in next pages.



■ Dimensions

D×L(mm)

Cap.(μF)	Code	V(Code)	φD	16V(1C)				25V(1E)				35V(1V)				50V(1H)			
				22	25	30	35	22	25	30	35	22	25	30	35	22	25	30	35
3300	332															22×30	25×25		
																2.35	2.35		
3900	392													22×25		22×35	25×30		
														2.16		2.66	2.68		
4700	472													22×30	25×25				
														2.42	2.42			22×40	25×35
																		30×25	35×25
																		2.98	3.30
5600	562							22×25						22×35				22×45	25×40
								2.11						2.66				3.40	3.47
																		3.42	
6800	682							22×30	25×25					22×40	25×30	30×25		22×50	25×40
								2.47	2.47					2.97	2.82	2.93		3.84	3.74
																		3.93	
8200	822							22×35						22×45	25×35				25×50
								2.86						3.29	3.17				30×40
																		4.44	4.47
																			4.36
10000	103							22×30						22×50	25×40	30×30			
								2.89						3.75	3.65	3.60			
																			30×45
																			35×35
12000	123							22×30	25×25						25×45	30×35	35×30		
								3.01	3.01					4.15	4.14	4.27			
																			30×50
																			35×40
																			5.69
15000	153							22×35	25×30	30×25					30×40	35×35			
								3.45	3.48	3.61					4.77	4.95			
																			6.56
18000	183							22×40	25×35					25×45	30×35	35×30		30×45	35×40
								3.84	3.91					4.53	4.52	4.66		5.30	5.52
																			35×50
																			7.14
22000	223							22×50	25×40	30×30					30×45	35×35			35×45
								4.52	4.40	4.34					5.33	5.26			6.20
27000	273							25×45	30×35					30×50	35×40			35×50	
								4.96	4.95					5.96	5.93			6.89	
33000	333								30×40	35×30					35×45				
									5.60	5.46					6.65				
39000	393								30×45	35×35					35×50				
									6.21	6.12					7.31				
47000	473								30×50	35×40									
									6.93	6.89									
56000	563									35×45									
										7.69									

Cap.(μF)	Code	V(Code)	φD	63V(1J)				80V(1K)				100V(2A)							
				22	25	30	35	22	25	30	35	22	25	30	35				
1200	122							22×25						22×30	25×25				
								1.66						2.11	2.11				
1500	152							22×30						22×35	25×30	30×25			
								1.96						2.45	2.47	2.56			
1800	182							22×25						22×40	25×35				
								1.82						2.77	2.81				
2200	222							22×30	25×25					22×45	25×40	30×30			
								2.14	2.14					3.15	3.21	3.17			
2700	272							22×35	25×30					25×45	30×35	35×30			
								2.49	2.52					3.66	3.65	3.77			
3300	332							22×35	25×30	30×25				25×50	30×40				
								2.72	2.74	2.84				4.15	4.18				
3900	392							22×40	25×35						30×45	35×35			
								3.09	3.13						4.67	4.61			
4700	472							22×50	25×40	30×30	35×25			25×50	30×40	35×30		30×50	35×40
								3.69	3.59	3.54	3.25			4.20	4.23	4.12		5.26	5.23
5600	562								25×45	30×35				30×45	35×35				35×45
									4.01	4.00				4.70	4.64				5.88
6800	682								25×50	30×40	35×30			30×50	35×40				
									4.52	4.55	4.44			5.27	5.24				
8200	822									30×45	35×35				35×45				
										5.12	5.05				5.89				
10000	103									30×50	35×40				35×50				
										5.78	5.75				6.63				
12000	123									35×45									
										6.47									

Allowable Ripple (A rms) at 85°C 120Hz



■ Dimensions

D×L(mm)

Cap.(μF)	V(Code)	Code	φD	160V(2C)				180V(2Z)				200V(2D)				250V(2E)								
				22	25	30	35	22	25	30	35	22	25	30	35	22	25	30	35					
220	221																	22×25 1.15						
270	271													22×25 1.25				22×30 1.25	25×25 1.25					
330	331													22×30 1.40				22×35 1.45	25×30 1.45					
390	391													22×30 1.60	25×25 1.60			22×40 1.70	25×30 1.70	30×25 1.70				
470	471													22×35 1.80	25×30 1.80			22×45 1.90	25×35 1.90	30×30 1.90				
560	561													22×40 2.00	25×35 2.00	30×25 2.00		22×50 2.15	25×40 2.15	30×30 2.15	35×25 2.15			
680	681													22×45 2.30	25×40 2.25	30×30 2.30		25×45 2.35	30×35 2.35	35×30 2.35				
820	821													22×50 2.50	25×40 2.50	30×30 2.50	35×25 2.50				30×40 2.75	35×35 2.75		
1000	102													22×50 2.80	25×40 2.80	30×30 2.80	35×25 2.80				30×45 3.00	35×40 3.00		
1200	122														25×45 3.25	30×35 3.25	35×30 3.25						35×45 3.50	
1500	152														30×40 3.75	35×35 3.75							35×50 4.00	
1800	182														30×50 4.00	35×40 4.00								
2200	222															35×45 4.50								
2700	272															35×50 5.15								

Cap.(μF)	V(Code)	Code	φD	400V(2G)				450V(2W)																	
				22	25	30	35	22	25	30	35														
56	560																								
68	680																								
82	820																								
100	101																								
120	121																								
150	151																								
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Allowable Ripple (A rms) at 85°C 120Hz