



Snap-in Terminal Type, Standard

series



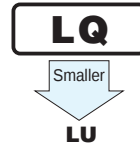
RCJ Approved



Anti-Solvent
Feature
(Through 100V only)

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

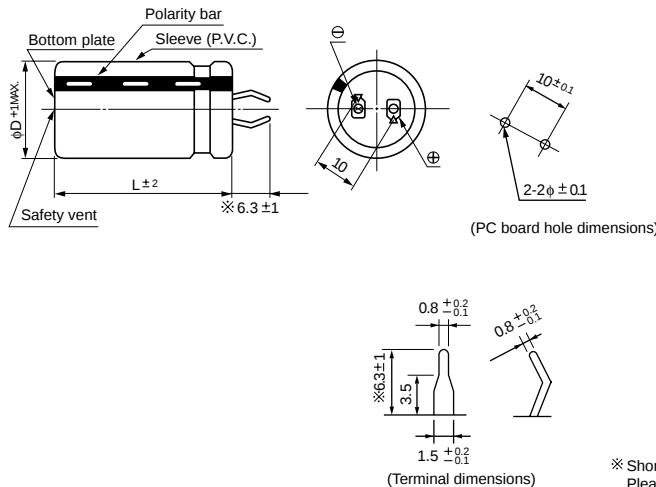
- Rated capacitances available based on the numerical values in E-12 series.(Size : $\phi 22 \sim \phi 35$)



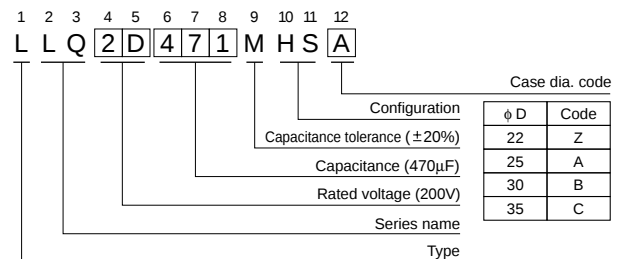
Specifications

Item	Performance Characteristics													
Operating Temperature Range	-40 ~ +85°C(16 ~ 250V), -25 ~ +85°C(400 ~ 450V)													
Voltage Range	16 ~ 450V													
Capacitance Range	56 ~ 56000μF													
Capacitance Tolerance	±20% at 120Hz, 20°C													
Leakage Current	I ≤ 3√CV (μA)(After 5 minutes' application of rated voltage) [C : Capacitance(μF), V : Voltage(V)]													
tan δ	Measurement frequency : 120Hz, Temperature : 20°C													
	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													
	Rated voltage(V)				16 ~ 100				160 ~ 250				400 ~ 450	
	Impedance ratio		Z-25°C/Z+20°C		4				3				8	
	ZT/Z20(MAX.)		Z-40°C/Z+20°C		15				12				—	
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.								Capacitance change		Within ±20% of initial value			
									tan δ		200% or less of initial specified value			
									Leakage current		Initial specified value or less			
Shelf Life	After leaving capacitors under no load at 85°C for 1000 hours, they meet the requirements listed at right.								Capacitance change		Within ±15% of initial value			
									tan δ		150% or less of initial specified value			
									Leakage current		Initial specified value or less			
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)



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.



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■ Dimensions

DXL(mm)

V(Code) Cap.(μF) Code		φD		16(1C)				25(1E)				35(1V)				50(1H)			
				22	25	30	35	22	25	30	35	22	25	30	35	22	25	30	35
3300	332														22X30	25X25			
															2.35	2.35			
3900	392										22X25				22X35	25X30			
											2.16				2.66	2.68			
4700	472										22X30	25X25			22X40	25X35	30X25	35X25	
											2.42	2.42			3.02	3.07	2.98	3.30	
5600	562						22X25				22X35				22X45	25X40	30X30		
							2.11				2.66				3.40	3.47	3.42		
6800	682						22X30	25X25			22X40	25X30	30X25		22X50	25X40	30X35		
							2.47	2.47			2.97	2.82	2.93		3.84	3.74	3.93		
8200	822	22X25					22X35				22X45	25X35				25X50	30X40	35X30	
		2.55					2.86				3.29	3.17				4.44	4.47	4.36	
10000	103	22X30					22X40	25X30	30X25		22X50	25X40	30X30				30X45	35X35	
		2.89					3.31	3.15	3.27		3.75	3.65	3.60				5.08	5.01	
12000	123	22X30	25X25				22X45	25X35	30X30			25X45	30X35	35X30			30X50	35X40	
		3.01	3.01				3.77	3.63	3.80			4.15	4.14	4.27			5.72	5.69	
15000	153	22X35	25X30	30X25			22X50	25X40					30X40	35X35				35X45	
		3.45	3.48	3.61			4.21	4.10					4.77	4.95				6.56	
18000	183	22X40	25X35					25X45	30X35	35X30				30X45	35X40			35X50	
		3.84	3.91					4.53	4.52	4.66				5.30	5.52			7.14	
22000	223	22X50	25X40	30X30					30X45	35X35					35X45				
		4.52	4.40	4.34					5.33	5.26					6.20				
27000	273		25X45	30X35					30X50	35X40					35X50				
			4.96	4.95					5.96	5.93					6.89				
33000	333			30X40	35X30					35X45									
				5.60	5.46					6.65									
39000	393			30X45	35X35					35X50									
				6.21	6.12					7.31									
47000	473			30X50	35X40														
				6.93	6.89														
56000	563				35X45														
					7.69														

V(Code) Cap.(μF) Code φD		63(1J)				80(1K)				100(2A)			
		22	25	30	35	22	25	30	35	22	25	30	35
1200	122					22X25				22X30	25X25		
						1.66				2.11	2.11		
1500	152					22X30				22X35	25X30	30X25	
						1.96				2.45	2.47	2.56	
1800	182	22X25				22X30	25X25			22X40	25X35		
		1.82				2.11	2.11			2.77	2.81		
2200	222	22X30	25X25			22X35	25X30	30X25		22X45	25X40	30X30	
		2.14	2.14			2.44	2.46	2.56		3.15	3.21	3.17	
2700	272	22X35	25X30			22X40	25X35				25X45	30X35	35X30
		2.49	2.52			2.82	2.86				3.66	3.65	3.77
3300	332	22X35	25X30	30X25		22X45	25X40	30X30			25X50	30X40	
		2.72	2.74	2.84		3.23	3.29	3.25			4.15	4.18	
3900	392	22X40	25X35			22X50	25X45	30X35				30X45	35X35
		3.09	3.13			3.62	3.71	3.70				4.67	4.61
4700	472	22X50	25X40	30X30	35X25		25X50	30X40	35X30			30X50	35X40
		3.69	3.59	3.54	3.25		4.20	4.23	4.12			5.26	5.23
5600	562		25X45	30X35				30X45	35X35				35X45
			4.01	4.00				4.70	4.64				5.88
6800	682		25X50	30X40	35X30			30X50	35X40				
			4.52	4.55	4.44			5.27	5.24				
8200	822			30X45	35X35				35X45				
				5.12	5.05				5.89				
10000	103			30X50	35X40				35X50				
				5.78	5.75				6.63				
12000	123				35X45								Case size
					6.47								Allowable ripple

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



■ Dimensions

DXL (mm)

Cap.(μF) V(Code) Code φD		160(2C)				180(2Z)				200(2D)				250(2E)			
		22	25	30	35	22	25	30	35	22	25	30	35	22	25	30	35
220	221													22X25			
														1.15			
270	271									22X25				22X30	25X25		
										1.25				1.25	1.25		
330	331					22X25				22X30				22X35	25X30		
						1.35				1.40				1.45	1.45		
390	391	22X25				22X30				22X30	25X25			22X40	25X30	30X25	
		1.55				1.55				1.60	1.60			1.70	1.70	1.70	
470	471	22X30	25X25			22X35	25X25			22X35	25X30			22X45	25X35	30X30	
		1.75	1.75			1.75	1.75			1.80	1.80			1.90	1.90	1.90	
560	561	22X35	25X30			22X40	25X30			22X40	25X35	30X25		22X50	25X40	30X30	35X25
		1.90	1.90			2.00	2.00			2.00	2.00	2.00		2.15	2.15	2.15	2.15
680	681	22X40	25X30	30X25		22X45	25X35	30X25		22X45	25X40	30X30			25X45	30X35	35X30
		2.15	2.15	2.15		2.25	2.25	2.25		2.30	2.25	2.30			2.35	2.35	2.35
820	821	22X45	25X35	30X30		22X50	25X40	30X30	35X25	22X50	25X45	30X35	35X30			30X40	35X35
		2.45	2.45	2.45		2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50			2.75	2.75
1000	102	22X50	25X40	30X30	35X25		25X45	30X35	35X30			30X40	35X30			30X45	35X40
		2.80	2.80	2.80	2.80		2.85	2.85	2.85			2.95	2.95			3.00	3.00
1200	122		25X45	30X35	35X30		25X50	30X40	35X30			30X45	35X35				35X45
			3.25	3.25	3.25		3.30	3.30	3.30			3.40	3.40				3.50
1500	152			30X40	35X35			30X45	35X35			30X50	35X40				35X50
				3.75	3.75			3.75	3.75			3.80	3.80				4.00
1800	182			30X50	35X40				35X45				35X45				
				4.00	4.00				4.05				4.15				
2200	222				35X45				35X50				35X50				
					4.50				4.60				4.70				
2700	272				35X50												
					5.15												

Cap.(μF) V(Code) Code φD		400(2G)				450(2W)			
		22	25	30	35	22	25	30	35
56	560					22X25			
						0.59			
68	680					22X30			
						0.63			
82	820	22X25				22X30	25X25		
		0.72				0.78	0.78		
100	101	22X30				22X35	25X30		
		0.77				0.92	0.92		
120	121	22X30	25X25			22X40	25X35	30X25	
		0.94	0.94			1.06	1.08	1.05	
150	151	22X35	25X30			22X50	25X40	30X30	
		1.13	0.92			1.28	1.25	1.23	
180	181	22X40	25X35	30X25			25X45	30X40	
		1.27	1.06	1.26			1.41	1.48	
220	221	22X45	25X40	30X30	35X25		25X50	30X40	35X30
		1.45	1.22	1.46	1.50		1.59	1.60	1.57
270	271		25X45	30X35	35X30			30X45	35X35
			1.69	1.68	1.46			1.83	1.80
330	331		25X50	30X40	35X30			30X50	35X40
			1.92	1.93	1.88			2.08	2.06
390	391			30X45	35X35				35X45
				2.16	2.13				2.31
470	471			30X50	35X40				35X50
				2.43	2.42				2.47
560	561				35X45				
					2.72				
680	681				35X50				
					3.08				

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