

LQ Long Life Series
Upgrade

- Endurance: 105°C 5000 hours
- Recommended Applications : Smoothing circuit, TV/Monitor,Adapter, SMPS
- Corresponding product to RoHS

550V
LINEUP

LQ

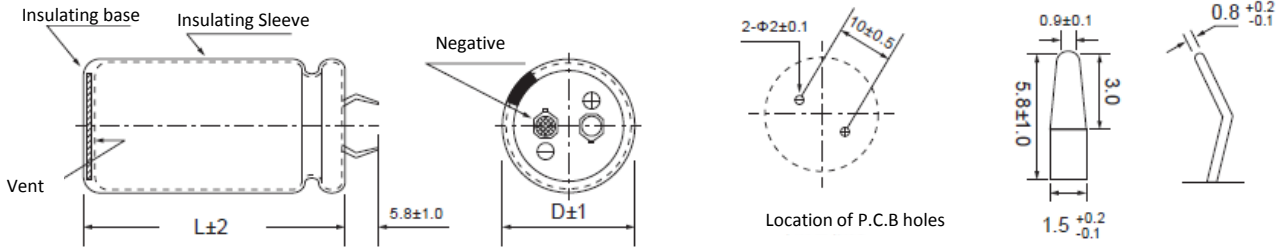
↑ Long Life
LJ



■ SPECIFICATIONS

Item	Characteristics						
Category Temperature Range	-25 ~ +105°C						
Rated Voltage Range	160 ~ 550VDC						
Rated Capacitance Range	56 ~ 2200 µF						
Capacitance Tolerance	± 20 % at 120Hz , 20°C						
Leakage Current (20°C)	I = 3√CV. (After rated voltage applied for 5 minutes) I : Max. leakage current (µA), C : Nominal capacitance (µF), V : Rated voltage (V)						
Dissipation Factor(MAX) (tan δ) (120Hz ,20°C)	WV	160	180	200	250~400	420~450	500~550
	tan δ	0.15	0.15	0.15	0.15	0.20	0.25
Low Temperature Stability Impedance Ratio (MAX)	Measurement frequency : 120Hz						
	Rated voltage(V)	160~400	450	500	550		
	Z-25°C / Z+20°C	4	8	8	8		
	Z-40°C / Z+20°C	—	—	—	—		
Endurance	After applying rated voltage with rated Ripple current for 5000hrs at 105°C,when the capacitors are restored to 20°C, the capacitor shall meet the following requirement.						
	Capacitance change	Within ± 20% of initial value					
	D.F. (tan δ)	Not more than 200% of specified value					
	Leakage current	Not more than the specified value					
Shelf Life	After placed at 105°C without voltage applied for 1000 hours,the capacitor shall meet the same requirements as Endurance.						

■ Dimensions [mm]



■ Multiplier for Ripple Current

Freq. (Hz)	50	60	120	400	1K	2.4K	5K	10K~100K
160~450V	0.80	0.85	1.00	1.14	1.23	1.30	1.36	1.40
500~550V	0.70	0.72	1.00	1.16	1.30	1.32	1.36	1.41

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STANDARD RATINGS

Rated Voltage (SurageVoltage) (V)	Cap (μF)	Case size Φ DxL(mm)	Ripple current (A/rms105°C) (120Hz)	ESR (Ω,20°C) (120Hz)	Rated Voltage (SurageVoltage) (V)	Cap (μF)	Case size Φ DxL(mm)	Ripple current (A/rms105°C) (120Hz)	ESR (Ω,20°C) (120Hz)
160(200)	270	22x25	0.85	0.737	200(250)	680	35x30	2.02	0.293
	330	22x30	1.00	0.603		820	25x45	2.20	0.243
	390	22x30	1.15	0.51			30x35	2.10	0.243
		25x25	1.15	0.51			35x30	2.16	0.243
	470	22x35	1.30	0.423		1000	30x45	2.32	0.199
		25x30	1.30	0.423			35x35	2.30	0.199
	560	22x40	1.57	0.355			1200	30x50	2.75
		25x30	1.50	0.355		35x40		2.75	0.166
		30x25	1.54	0.355		1500	35x45	2.90	0.133
	680	22x45	1.75	0.293			250 (300)	150	22x25
		25x35	1.70	0.293	180	22x30		0.85	1.110
		30x30	1.77	0.293	220	22x30		1.00	0.905
	820	22x50	2.03	0.243		25x25		1.00	0.905
		25x40	1.97	0.243		270		22x35	1.22
		30x30	1.95	0.243	22x25			1.15	0.737
	1000	35x25	1.99	0.243	330	22x40		1.36	0.603
		25x45	2.15	0.199		25x30		1.30	0.603
		1200	30x35	2.15	0.199	390		22x45	1.54
	35x30		2.21	0.199	25x35			1.48	0.510
	1500		30x40	2.45	0.166		30x25	1.45	0.510
35x35		2.52	0.166	35x25	1.59	0.510			
1800		30x50	2.75	0.133	470	22x50	1.78	0.423	
	35x40	2.75	0.133	25x40		1.75	0.423		
	2200	35x45	3.00	0.111		30x30	1.72	0.423	
270		22x25	0.85	0.737	35x30	1.88	0.423		
		330	22x30	1.10	0.603	25x40	1.80	0.355	
	390	22x35	1.32	0.51	560	30x35	1.89	0.355	
25x25		1.25	0.51	35x30		1.94	0.355		
470		22x40	1.47	0.423		25x50	2.10	0.293	
	25x30	1.40	0.423	680	30x40	2.10	0.293		
	22x45	1.70	0.355		35x35	2.18	0.293		
560	25x35	1.63	0.355		820	30x45	2.30	0.243	
	30x25	1.60	0.355	35x40		2.39	0.243		
	680	22x50	1.87	0.293		1000	30x50	2.55	0.199
25x40		1.82	0.293	35x45	2.65		0.199		
30x30		1.80	0.293	1200	35x50		2.90	0.166	
820	35x25	1.84	0.293		315(365)	82	22x25	0.55	2.426
	25x45	2.05	0.243			100	22x30	0.65	1.989
	30x35	2.05	0.243	120		22x30	0.75	1.658	
35x30	2.11	0.243	25x25			0.75	1.658		
1000	25x50	2.27	0.199	150		22x35	0.80	1.326	
	30x40	2.29	0.199			25x30	0.80	1.326	
	35x30	2.25	0.199			180	22x40	1.01	1.105
1200	30x45	2.57	0.166	25x35			1.02	1.105	
	35x35	2.55	0.166	30x25			1.00	1.105	
	1500	35x40	2.85	0.133		220	22x45	1.10	0.905
1800		35x50	3.10	0.111	25x40		1.12	0.905	
		220	22x25	0.85	0.905		30x30	1.10	0.905
	270		22x30	1.00	0.737	270	25x45	1.25	1.737
330	22x30		1.15	0.603	30x35		1.25	0.737	
	25x25	1.15	0.603	330	25x50		1.53	0.603	
390	22x35	1.30	0.510		30x40	1.53	0.603		
	25x30	1.30	0.510		390	35x30	1.50	0.603	
470	22x40	1.52	0.423	30x45		1.71	0.510		
	25x35	1.54	0.423	35x30		1.60	0.510		
	30x25	1.49	0.423	470	30x50	1.85	0.423		
560	22x45	1.70	0.355		35x35	1.75	0.423		
	25x30	1.65	0.355		560	35x40	2.00	0.355	
	30x30	1.72	0.355	680		35x45	2.20	0.293	
680	25x45	1.97	0.293	350(400)	82	22x25	0.60	2.426	
	30x35	1.97	0.293		100	22x30	0.70	1.989	
	30x35	1.97	0.293			25x25	0.70	1.989	

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Rated Voltage (SurageVoltage) (V)	Cap (μ F)	Case size Φ DxL(mm)	Ripple current (A/rms105°C) (120Hz)	ESR (Ω,20°C) (120Hz)	Rated Voltage (SurageVoltage) (V)	Cap (μ F)	Case size Φ DxL(mm)	Ripple current (A/rms105°C) (120Hz)	ESR (Ω,20°C) (120Hz)
350(400)	120	25x35	0.80	1.658	350(400)	82	22x35	0.80	4.044
		25x30	0.80	1.658			25x25	0.75	4.044
	150	22x40	0.86	1.326		100	22x40	0.89	3.316
		25x35	0.87	1.326			25x30	0.85	3.316
		30x25	0.85	1.326			22x45	0.95	2.763
	180	22x45	1.05	1.105		120	25x35	0.92	2.763
		25x40	1.07	1.105			30x25	0.90	2.763
		30x30	1.05	1.105			22x50	1.14	2.210
	220	22x50	1.16	0.905		150	25x40	1.11	2.210
		25x45	1.20	0.905			30x30	1.10	2.210
		30x35	1.18	0.905			25x45	1.25	1.842
		30x25	1.15	0.905		30x35	1.25	1.842	
	270	25x50	1.31	0.737		180	35x25	1.20	1.842
		30x40	1.33	0.737			25x50	1.36	1.507
		35x30	1.30	0.737			30x40	1.38	1.507
	330	30x45	1.46	0.603		220	35x30	1.35	1.507
		35x35	1.45	0.603			30x45	1.51	1.228
	390	30x50	1.65	0.510			270	35x35	1.50
		35x40	1.65	0.510		30x50		1.70	1.005
	470	35x45	1.85	0.423		330	35x40	1.70	1.005
560	35x50	2.10	0.355	390	35x45		1.90	0.850	
400(450)	68	22x25	0.55	2.926	470	35x50	2.10	0.705	
	82	22x30	0.65	2.426	500(550)	100	30x25	0.82	4.147
		25x25	0.65	2.426		120	30x30	0.91	3.456
	100	22x35	0.79	1.989			35x25	0.88	3.456
		25x25	0.50	1.989		150	30x35	1.04	2.765
	120	22x40	0.89	1.658		180	30x40	1.17	2.304
		25x30	0.85	1.658			35x30	1.10	2.304
		30x25	0.87	1.658			220	30x45	1.33
	150	22x45	0.93	1.326		35x35	1.23	1.885	
		25x35	0.90	1.326		270	30x50	1.50	1.536
		30x30	0.94	1.326			35x40	1.42	1.536
		35x25	0.96	1.326		330	35x45	1.60	1.257
	180	22x50	1.14	1.105		390	35x50	1.78	1.063
		25x40	1.11	1.105		470	35x60	2.03	0.882
		30x30	1.10	1.105		550(600)	100	22x40	0.83
	35x25	1.12	1.105	120			30x30	0.84	4.147
	220	25x45	1.20				0.905	22x45	0.95
		35x35	1.20	0.905			30x35	1.00	3.456
		35x30	1.24	0.905			150	22x50	1.12
	270	25x50	1.36	0.737				30x40	1.15
30x40		1.38	0.737	35x30				1.12	2.765
35x30		1.35	0.737	30x45	1.23		2.304		
400(450)	330	30x45	1.51	0.603	180		35x35	1.21	2.304
		35x35	1.50	0.603			220	30x50	1.42
	390	30x50	1.70	0.510	35x40			1.41	1.885
		35x40	1.70	0.510	270		35x45	1.56	1.536
470	35x45	1.90	0.423	330			35x50	1.81	1.257
450(500)	56	22x25	0.55	5.921			390	35x60	2.12
	68	22x30	0.65	4.876					