

Jamicon Series : HL

Teapo Series : LQ Long Life Series

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

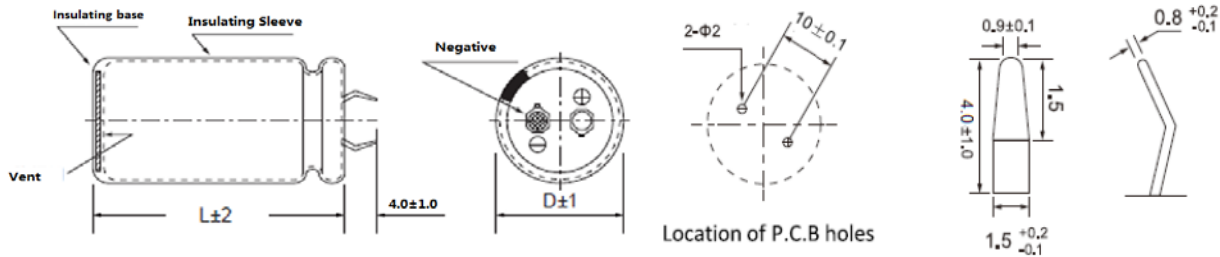
550V  
LINE  
UP



**SPECIFICATIONS**

Item	Characteristics		
Category Temperature Range	-40 ~ +105°C	-25 ~ +105°C	
Rated Voltage Range	160 ~ 500VDC	DC > 500V	
Rated Capacitance Range	56 ~ 2200 μF	100 ~ 470 μF	
Capacitance Tolerance	± 20 % at 120Hz , 20		
Leakage Current (20°C)	DC≤500V $I = \sqrt[3]{CV}$ DC> 500V $I=0.02CV$ or 3mA whichever is greater (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	160~400    420~450    500~550	
	Capacitance	-                    -                    -	
	tan δ	0.15                0.20                0.25	
Low Temperature Stability Impedance Ratio (MAX)	Measurement frequency : 120Hz		
	Rated voltage(V)	160~400    420~450    500~550	
	Z-25°C / Z+20°C	4                8                8	
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	
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°C without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to item 4.1 of JIS C 5101-4.		
	Leakage current		
	Not more than the specified		

**Dimensions [mm]**



※When the code 11~13 of part number is S1G, the terminal length of standard capacitor is 4.0±1.0mm, and when it is S1A, the terminal length of standard capacitor is 5.8±1.0mm.

**Multiplier for Ripple Current**

Freq. (Hz)	50	60	120	1K	10k~100k
6.3~100V	0.88	0.90	1.00	1.20	1.30
160~250V	0.85	0.88	1.00	1.30	1.50
315~450	0.88	0.90	1.00	1.35	1.45
500~550	0.70	0.72	1.00	1.30	1.40

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■ STANDARD RATINGS

Rated Voltage (SurageVoltage) (V)	Cap ( $\mu$ F)	Case size $\Phi$ DxL(mm)	Ripple current (A/rms105°C) (120Hz)	ESR ( $\Omega$ ,20°C) (120Hz)	Rated Voltage (SurageVoltage) (V)	Cap ( $\mu$ F)	Case size $\Phi$ DxL(mm)	Ripple current (A/rms105°C) (120Hz)	ESR ( $\Omega$ ,20°C) (120Hz)	
160(200)	270	22x25	0.85	0.737	200(250)	680	35x25	1.98	0.293	
	330	22x30	1.00	0.603		820	25x45	2.27	0.243	
	390	22x30	1.15	0.51			30x35	2.26	0.243	
		25x25	1.15	0.51			35x30	2.33	0.243	
	470	22x35	1.30	0.423		1000	30x45	2.78	0.199	
		25x30	1.30	0.423			35x35	2.74	0.199	
	560	22x40	1.57	0.355		1200	30x50	3.19	0.166	
		25x30	1.50	0.355			35x40	3.17	0.166	
		30x25	1.54	0.355		1500	35x45	3.72	0.133	
	680	22x45	1.75	0.293		250 (300)	150	22x25	0.75	1.330
		25x35	1.70	0.293	180		22x25	0.76	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		22x30	1.05	0.737	
		30x30	1.95	0.243			25x25	1.15	0.737	
	1000	35x25	1.99	0.243	330		22x35	1.22	0.603	
		25x45	2.15	0.199			25x30	1.30	0.603	
		1200	30x35	2.15	0.199		390	22x40	1.37	0.510
	35x30		2.21	0.199	25x35			1.48	0.510	
	30x40		2.45	0.166	30x30			1.45	0.510	
1500	35x35	2.52	0.166	470	35x25		1.59	0.510		
	30x50	2.75	0.133		22x50		1.78	0.423		
	35x40	2.75	0.133		25x40		1.75	0.423		
1800	35x45	3.00	0.111	315(365)	30x30		1.72	0.423		
2200	35x50	3.50	0.09		35x25	1.66	0.423			
180(225)	270	22x25	0.85		0.737	25x40	1.80	0.355		
	330	22x30	1.10		0.603	30x35	1.89	0.3550		
	390	22x35	1.32		0.51	35x30	1.94	0.3550		
		25x25	1.25		0.51	680	25x50	2.10	0.2930	
	470	22x40	1.47		0.423		30x40	2.15	0.293	
		25x30	1.40		0.423	35x30	2.10	0.293		
	560	22x45	1.70		0.355	820	30x45	2.49	0.243	
		25x35	1.63		0.355		35x35	2.45	0.243	
		30x25	1.60		0.355	1000	30x50	2.80	0.199	
	680	22x50	1.87		0.293		35x40	2.86	0.199	
		25x40	1.82		0.293	1200	35x50	3.44	0.166	
		30x30	1.80		0.293	350(400)	82	22x25	0.60	2.426
	35x25	1.84	0.293		100		22x30	0.65	1.989	
	820	25x45	2.05	0.243	120		22x30	0.75	1.658	
		30x35	2.05	0.243			25x25	0.75	1.658	
		35x30	2.11	0.243	150		22x35	0.80	1.326	
	1000	25x50	2.27	0.199			25x30	0.80	1.326	
		30x40	2.29	0.199	180		22x40	1.01	1.105	
		35x30	2.25	0.199			25x35	1.02	1.105	
	1200	30x45	2.57	0.166			30x25	1.00	1.105	
35x35		2.55	0.166	220	22x45		1.10	0.905		
1500	35x40	2.85	0.133		25x40		1.12	0.905		
	1800	35x50	3.10	0.111	30x30		1.10	0.905		
200(250)	220	22x25	0.85	0.905	315(365)		270	25x45	1.25	0.737
	270	22x30	1.02	0.737			330	30x35	1.25	0.737
	330	22x30	1.15	0.603				25x50	1.53	0.603
		25x25	1.15	0.603		30x40		1.53	0.603	
	390	22x35	1.31	0.510		390	35x30	1.50	0.603	
		25x30	1.32	0.510			30x45	1.71	0.510	
	470	22x40	1.52	0.423		470	35x30	1.60	0.510	
		25x30	1.45	0.423			30x50	1.85	0.423	
		30x25	1.50	0.423		560	35x35	1.75	0.423	
	560	22x45	1.75	0.355			35x40	2.00	0.355	
		25x35	1.68	0.355			680	35x45	2.20	0.293
		30x30	1.76	0.355		350(400)	82	22x25	0.60	2.426
	680	25x40	1.96	0.293			100	22x30	0.70	1.989
		30x30	1.94	0.293			25x25	0.70	1.989	

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350(400)	120	25x35	0.80	1.658	450(500)	82	22x30	0.70	3.235
		25x30	0.80	1.658			25x25	0.75	3.235
	150	22x40	0.86	1.326		100	22x35	0.80	2.653
		25x35	0.87	1.326			25x30	0.85	2.653
		30x25	0.85	1.326		120	22x40	0.88	2.210
	180	22x45	1.05	1.105			25x35	0.92	2.210
		25x40	1.07	1.105			30x25	0.90	2.210
		30x30	1.05	1.105		150	22x50	1.14	1.768
	220	22x50	1.16	0.905			25x40	1.11	1.768
		25x45	1.20	0.905			30x30	1.10	1.768
		30x35	1.18	0.905		180	25x45	1.25	1.474
		30x25	1.15	0.905			30x35	1.25	1.474
	270	25x50	1.31	0.737		35x25	1.20	1.474	
		30x40	1.33	0.737		220	25x50	1.36	1.206
		35x30	1.30	0.737			30x40	1.38	1.206
	330	30x45	1.46	0.603		35x30	1.35	1.206	
35x35		1.45	0.603	270	30x45	1.51	0.982		
390	30x50	1.65	0.510		35x35	1.50	0.982		
	470	35x40	1.65	0.510	330	30x50	1.70	0.804	
35x45		1.85	0.423	35x40		1.70	0.804		
560	35x50	2.10	0.355	390	35x45	1.90	0.680		
400(450)	68	22x25	0.55	2.926	470	35x50	2.10	0.564	
	82	22x30	0.65	2.426	500(550)	100	30x25	0.82	3.316
		25x25	0.65	2.426		120	30x30	0.91	2.763
	100	22x30	0.70	1.989			35x25	0.88	2.763
		25x25	0.70	1.989		150	30x35	1.04	2.210
	120	22x35	0.80	1.658			180	30x40	1.17
		25x30	0.85	1.658		35x30		1.10	1.842
		30x25	0.87	1.658		220	30x45	1.33	1.507
	150	22x40	0.85	1.326			35x35	1.23	1.507
		25x35	0.90	1.326			270	30x50	1.50
		30x30	0.94	1.326		35x40		1.42	1.228
		35x25	0.96	1.326		330	35x45	1.60	1.005
	180	22x45	1.05	1.105			390	35x50	1.78
		25x40	1.11	1.105		470	35x60	2.03	0.705
		30x30	1.10	1.105		550(600)	100	22x40	0.83
	35x25	1.12	1.105	120			30x30	0.84	3.316
220	25x40	1.15	0.905				22x45	0.95	2.763
	30x35	1.20	0.905	30x35	1.00		2.763		
	35x30	1.24	0.905	150	22x50		1.12	2.210	
270	25x45	1.29	0.737		30x40		1.15	2.210	
	30x40	1.38	0.737		35x30		1.12	2.210	
	35x30	1.35	0.737	180	30x45		1.23	1.842	
330	30x40	1.51	0.603		35x35		1.21	1.842	
	35x35	1.56	0.603	220	30x50		1.42	1.507	
390	30x45	1.72	0.510		35x40		1.41	1.507	
	35x40	1.75	0.510	270	35x45		1.56	1.228	
470	35x40	1.97	0.423		330		35x50	1.81	1.005
450(500)	56	22x25	0.55	4.737	390		35x60	2.12	0.850
	68	22x30	0.65	3.901					