

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

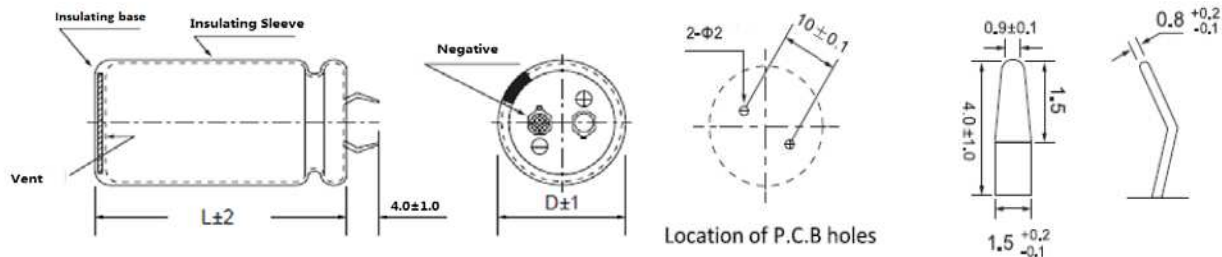
550V
LINE
UP



■ 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.		

■ 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

Jamicon Series : HL

Teapo Series : LQ

■ STANDARD RATINGS

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)
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
		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
	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	560	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	315(365)	82	22x25	0.55	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
	30x45	2.57	0.166	30x25			1.00	1.105	
1200	35x35	2.55	0.166	220		22x45	1.10	0.905	
	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		270	25x45	1.25	0.737
	270	22x30	1.02	0.737			30x35	1.25	0.737
	330	22x30	1.15	0.603			330	25x50	1.53
		25x25	1.15	0.603	30x40			1.53	0.603
	390	22x35	1.31	0.510	35x30			1.50	0.603
		25x30	1.32	0.510	390		30x45	1.71	0.510
	470	22x40	1.52	0.423			35x30	1.60	0.510
		25x30	1.45	0.423	470		30x50	1.85	0.423
		30x25	1.50	0.423			35x35	1.75	0.423
	560	22x45	1.75	0.355	560		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	

Jamicon Series : HL

Teapo Series : LQ

■ STANDARD RATINGS

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	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	
		22x30	0.65	2.426	500(550)	100	30x25	0.82	3.316
	82	25x25	0.65	2.426		120	30x30	0.91	2.763
		22x30	0.70	1.989			35x25	0.88	2.763
	100	25x25	0.70	1.989		150	30x35	1.04	2.210
		22x35	0.80	1.658		180	30x40	1.17	1.842
		25x30	0.85	1.658			35x30	1.10	1.842
	120	30x25	0.87	1.658		220	30x45	1.33	1.507
		22x40	0.85	1.326			35x35	1.23	1.507
		150	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	3.316
	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					