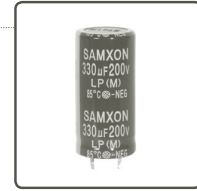


**FEATURES**

- Directly mountable on printed circuit board without holders.
- Smaller in sizes than ordinary capacitors.
- Terminal spacing fixed at 10mm for PC board plug in.
- Aluminum case designed with explosion-proof vent.



**SPECIFICATIONS**

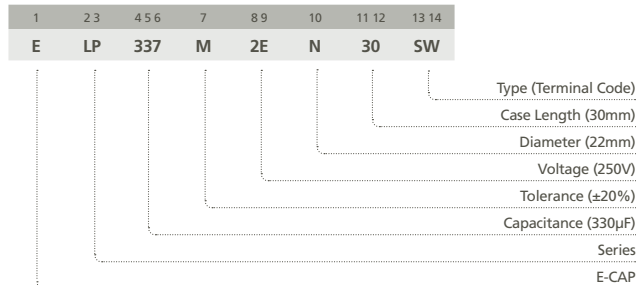
Item	Performance Characteristics					
Operating Temperature Range	-40 to +85°C	-25 to +85°C				
Rated Working Voltage Range	10 to 250V	315 to 500V				
Nominal Capacitance Range	56 to 82000µF					
Capacitance Tolerance	±20% at 120Hz, +20°C					
Leakage Current	I ≤ 3√CV (µA) after 5 minutes application of rated working voltage at +20°C					
tan δ (120Hz, +20°C)	Working Voltage (V)	10    16    25    35    50    63    80    100				
	tan δ (max.)	0.55   0.50   0.45   0.40   0.35   0.30   0.25   0.20				
	Working Voltage (V)	160-250    315-420    450-500				
	tan δ (max.)	0.15    0.15    0.20				
	For capacitance value >33000µF, add following calculated value: $\frac{(\text{rated capacitance}) - 33000\mu\text{F}}{10000\mu\text{F}} \times 0.1$					
Low Temperature Characteristics	Impedance ratio max. at 120Hz					
	Working Voltage (V)	10-100	160-250	315-385	400-450	500
	Z-25°C / Z+20°C	4	3	5	8	8
	Z-40°C / Z+20°C	15	15	-	-	-
High Temperature Loading	Test time	: 2,000 hours		Post test requirements at +20°C		
	Test temperature	: +85°C		Leakage current : ≤Initial specified value		
	Test conditions	: Rated DC working voltage with rated ripple current		Cap. change : within ±20% of the initial measured value tan δ : ≤200% of the initial specified value		
Shelf Life	At +85°C no voltage applied after 1,000 hours and then being stabilized at +20°C the capacitors shall meet the following limits					
	Leakage current	: ≤Initial specified value				
	Cap. change	: within ±15% of the initial measured value				
	tan δ	: ≤150% of the initial specified value				
Industrial Standard	JIS C - 5101-4 (IEC 60384-4)					

**RIPPLE CURRENT MULTIPLIER**

**Frequency Coefficient**

Coefficient	Freq. (Hz)	Rated Voltage			
		60	120	1k	10-50k
10-100V		0.90	1.00	1.15	1.25
160-250V		0.80	1.00	1.15	1.47
315-500V		0.80	1.00	1.15	1.47

**PART NUMBER SYSTEM (EXAMPLE : 250V 330µF)**





**SAMXON®**

Aluminum Electrolytic Capacitors

Lug / Snap-in Terminal Type (插入/自立型), Standard (標準品)

**STANDARD RATINGS**

Voltage (Code)		10V (1A)		16V (1C)		25V (1E)		35V (1V)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
2700	278							20 x 25	1.76
3300	338							20 x 30	2.14
3900	398							20 x 30	2.28
								22 x 25	2.22
4700	478					20 x 25	2.18	20 x 35	2.46
								22 x 30	2.46
								25 x 25	2.43
5600	568					20 x 30	2.33	22 x 35	2.79
						22 x 25	2.31	25 x 30	2.75
6800	688			20 x 25	2.33	20 x 35	2.56	22 x 40	2.97
						22 x 30	2.56	25 x 30	2.89
								30 x 25	3.09
8200	828			20 x 30	2.56	20 x 40	2.91	22 x 45	3.47
						22 x 30	2.86	25 x 35	3.33
				22 x 25	2.56	25 x 25	2.78	30 x 30	3.29
10000	109	20 x 25	2.22	20 x 35	2.85	22 x 35	3.31	22 x 50	3.75
				22 x 30	2.89	25 x 30	3.16	25 x 40	3.65
12000	129	20 x 30	2.44	20 x 40	3.20	22 x 40	3.77	30 x 30	3.61
				22 x 30	3.13	25 x 35	3.63	25 x 45	4.15
		22 x 25	2.41	25 x 25	3.01	30 x 25	3.80	30 x 35	4.14
15000	159	20 x 35	2.90	22 x 35	3.69	22 x 50	4.21	35 x 30	4.27
		22 x 30	2.88	25 x 30	3.64	25 x 40	4.10	30 x 40	4.80
		25 x 25	2.88	30 x 25	3.73	30 x 30	4.00	35 x 35	4.95
18000	189	20 x 40	3.31	22 x 40	3.98	25 x 45	4.68	30 x 45	5.30
		22 x 35	3.22	25 x 35	3.98	30 x 35	4.66	35 x 40	5.71
		25 x 30	3.08	30 x 30	3.88	35 x 30	4.68		
22000	229	22 x 40	3.79	22 x 50	4.52	30 x 40	5.33		
		25 x 30	3.66	25 x 40	4.44			35 x 45	6.38
		30 x 25	3.53	30 x 30	4.38	35 x 35	5.26		
27000	279	22 x 45	4.04	25 x 45	4.98	30 x 45	6.02		
		25 x 35	4.04	30 x 35	4.95			35 x 50	6.90
		30 x 30	3.99	35 x 30	4.82	35 x 40	6.02		
33000	339	22 x 50	4.58	25 x 50	5.49				
		25 x 40	4.56	30 x 40	5.60	35 x 45	6.75		
		30 x 30	4.58	35 x 30	5.46				
39000	399	25 x 45	5.29	30 x 45	6.21				
		30 x 35	5.21			35 x 50	7.56		
		35 x 30	5.50	35 x 35	6.12				
47000	479	25 x 50	5.78	30 x 50	6.93				
		30 x 40	5.78						
		35 x 35	5.55	35 x 40	6.89				
56000	569	30 x 45	6.59	35 x 45	7.69				
		35 x 35	6.40						
68000	689	30 x 50	7.50						
		35 x 40	7.48						
82000	829	35 x 50	8.50						

Maximum Allowable Ripple Current (Arms) at 85°C 120Hz

Case Size ΦD x L (mm)

LP

Large Can Aluminum Electrolytic Capacitors

Specifications are subject to change without notice. Should a safety or technical concern arise regarding the product, please be sure to contact our sales offices or agents immediately.

**STANDARD RATINGS**

Voltage (Code)		50V (1H)		63V (1J)		80V (1K)		100V (2A)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
680	687							20 x 25	1.66
820	827							20 x 30	1.85
								22 x 25	1.86
1000	108					20 x 25	1.56	20 x 35	2.02
								22 x 30	2.02
								20 x 40	2.12
1200	128					20 x 30	1.80	22 x 30	2.12
								22 x 25	1.77
						20 x 35	2.10	25 x 25	2.11
1500	158			20 x 25	1.69	22 x 30	2.01	22 x 35	2.45
						20 x 30	2.04	25 x 30	2.47
				20 x 30	1.70	20 x 40	2.30	22 x 40	2.77
				22 x 25	1.90	22 x 30	2.11	25 x 35	2.81
						25 x 25	2.26	30 x 25	2.65
		20 x 30	2.07	20 x 35	2.40	22 x 40	2.53	22 x 45	3.15
2200	228			22 x 30	2.35	25 x 30	2.53	25 x 40	3.21
		22 x 25	1.93	25 x 25	2.30	30 x 25	2.56	30 x 30	3.17
		20 x 35	2.21	20 x 40	2.52	22 x 45	2.93	25 x 45	3.66
2700	278			22 x 35	2.50	25 x 35	2.93	30 x 35	3.65
		22 x 30	2.21	25 x 30	2.52	30 x 30	2.91	35 x 30	3.77
		20 x 40	2.41	22 x 40	2.72	22 x 50	3.23	25 x 50	4.15
3300	338			25 x 30	2.74	25 x 40	3.29	30 x 40	4.18
		25 x 25	2.38	30 x 25	2.78	30 x 30	3.25	35 x 35	4.07
		22 x 35	2.72	22 x 45	3.09	25 x 45	3.62	30 x 45	4.67
3900	398			25 x 35	3.13				
		25 x 30	2.68	30 x 30	3.09	30 x 35	3.70	35 x 35	4.61
		22 x 40	3.02	22 x 50	3.69	25 x 50	4.28	30 x 50	5.26
4700	478			25 x 40	3.59	30 x 40	4.23		
		30 x 25	3.01	30 x 30	3.54	35 x 30	4.12	35 x 40	5.23
		22 x 45	3.43	25 x 45	4.01				
5600	568			30 x 35	4.00	30 x 45	4.70		
		30 x 30	3.43	35 x 30	3.75	35 x 35	4.64	35 x 45	5.88
		22 x 50	3.94	25 x 50	4.52				
6800	688			30 x 40	4.55	30 x 50	5.27		
		30 x 35	3.93	35 x 30	4.44	35 x 40	5.24	35 x 50	6.01
		25 x 45	4.44	30 x 45	5.12				
8200	828					35 x 45	5.89		
		30 x 35	4.47	35 x 35	5.05				
		35 x 30	4.41						
		30 x 40	5.08	30 x 50	5.78				
10000	109			35 x 40	5.75	35 x 50	6.63		
		35 x 35	4.92						
		30 x 50	5.72						
12000	129			35 x 45	6.47				
		35 x 40	5.69						
15000	159								
18000	189								
		35 x 45	6.56						
		35 x 50	7.14						

Maximum Allowable Ripple Current (Arms) at 85°C 120Hz

Case Size  $\phi$ D x L (mm)

**STANDARD RATINGS**

Voltage (Code)		160V (2C)		180V (2P)		200V (2D)		220V (2N)					
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current				
180	187							20 x 25	1.11				
220	227					20 x 25	1.19	20 x 25	1.23				
								22 x 25	1.30				
270	277	20 x 25	1.28	20 x 25	1.29	20 x 30	1.39	20 x 30	1.46				
						22 x 25	1.37	22 x 25	1.42				
330	337	20 x 25	1.55	20 x 30	1.77	20 x 30	1.56	20 x 35	1.64				
						22 x 25	1.51	22 x 30	1.59				
						25 x 25	1.59	25 x 25	1.59				
390	397	20 x 30	1.63	20 x 30	1.84	20 x 35	1.74	20 x 40	1.79				
						22 x 30	1.73	22 x 35	1.80				
						25 x 25	1.71	25 x 25	1.75				
470	477	20 x 35	1.90	20 x 35	1.91	20 x 40	2.03	22 x 35	2.06				
						22 x 30	1.91	22 x 30	1.97	25 x 30	2.08		
						25 x 25	1.86	25 x 25	2.08	25 x 30	1.95	30 x 25	2.16
560	567	20 x 40	2.14	20 x 40	2.15	22 x 40	2.18	22 x 40	2.22				
						22 x 30	2.15	22 x 35	2.25	25 x 30	2.15	25 x 35	2.38
						25 x 30	2.15	25 x 25	2.25	30 x 25	2.15	30 x 25	2.18
680	687	22 x 40	2.35	22 x 35	2.48	22 x 45	2.48	22 x 45	2.62				
						25 x 30	2.33	25 x 30	2.50	25 x 35	2.48	25 x 40	2.56
						30 x 25	2.33	30 x 25	2.46	30 x 30	2.48	30 x 30	2.52
820	827	22 x 45	2.68	22 x 40	2.86	22 x 50	2.81	25 x 45	2.91				
						25 x 35	2.65	25 x 35	2.75	25 x 40	2.79	30 x 35	2.84
						30 x 30	2.64	30 x 25	2.69	30 x 30	2.75	35 x 30	2.79
1000	108	22 x 50	3.02	25 x 40	3.06	25 x 45	3.28	25 x 50	3.53				
						25 x 40	3.00	30 x 35	3.15	30 x 40	3.36		
						30 x 30	2.96	30 x 30	3.10	35 x 30	3.25	35 x 30	3.29
1200	128	25 x 45	3.43	25 x 45	3.63	25 x 50	3.61	30 x 45	3.72				
						30 x 35	3.41	30 x 35	3.55	30 x 40	3.61	35 x 35	3.68
						35 x 30	3.40	35 x 30	3.49	35 x 35	3.57		
1500	158	30 x 40	3.96	30 x 40	4.10	30 x 45	4.13	35 x 40	4.10				
						35 x 35	3.94	35 x 35	4.02	35 x 40	4.06		
1800	188	30 x 45	4.31	30 x 45	4.55	35 x 45	4.59	35 x 45	4.52				
						35 x 35	4.28	35 x 35	4.54				
2200	228	35 x 40	4.96	35 x 40	4.83	35 x 50	5.25						
2700	278	35 x 50	5.57	35 x 50	5.30								

Maximum Allowable Ripple Current (Arms) at 85°C 120Hz

Case Size ΦD x L (mm)

**STANDARD RATINGS**

Voltage (Code)		250V (2E)		315V (2F)		350V (2V)		385V (2Y)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
68	686							20 x 25	0.68
82	826							20 x 30	0.74
								22 x 25	0.76
100	107							20 x 30	0.86
								22 x 30	0.89
120	127					20 x 30	0.96	20 x 35	0.96
						22 x 25	1.04	22 x 30	0.98
150	157							25 x 25	1.02
				20 x 30	1.00	20 x 30	1.10	20 x 40	1.10
						22 x 30	1.20	22 x 35	1.12
180	187					25 x 25	1.22	25 x 30	1.14
				20 x 35	1.13	20 x 35	1.24	22 x 40	1.27
		20 x 25	1.20	22 x 30	1.29	22 x 30	1.34	25 x 35	1.30
220	227					25 x 25	1.37	30 x 25	1.37
		20 x 30	1.26	20 x 40	1.29	22 x 35	1.47	22 x 45	1.42
		22 x 25	1.24	22 x 35	1.41	25 x 30	1.53	25 x 35	1.48
270	277					30 x 25	1.54	30 x 30	1.49
		20 x 30	1.42	22 x 40	1.70	22 x 40	1.70	25 x 40	1.61
		22 x 30	1.50	25 x 30	1.70	25 x 35	1.73	30 x 35	16.4
330	337					30 x 25	1.80	30 x 35	16.4
		20 x 35	1.68	22 x 45	1.91	22 x 45	1.87	25 x 50	1.80
		22 x 30	1.66	25 x 35	1.94	25 x 40	1.97	30 x 40	1.85
390	397					30 x 30	2.03	35 x 30	1.87
		25 x 25	1.61	30 x 30	1.98	30 x 30	2.03	35 x 30	1.87
		20 x 40	1.92	22 x 50	2.07	25 x 40	2.14	30 x 40	2.05
470	477					35 x 30	2.30	35 x 35	2.07
		22 x 35	1.88	25 x 40	2.11	30 x 35	2.23	35 x 35	2.07
		25 x 30	1.88	30 x 30	2.15	35 x 30	2.30	35 x 35	2.07
560	567					30 x 35	2.36	35 x 40	2.26
		22 x 40	2.15	25 x 45	2.39	30 x 35	2.53	30 x 50	2.26
		25 x 35	2.15	30 x 35	2.38	30 x 35	2.38	30 x 35	2.38
680	687					35 x 30	2.36	35 x 30	2.55
		30 x 25	2.04	35 x 30	2.36	35 x 30	2.55	35 x 40	2.26
		22 x 45	2.48	30 x 40	2.63	30 x 40	2.73	35 x 40	2.26
820	827					35 x 35	2.75	35 x 35	2.75
		25 x 35	2.35	35 x 35	2.69	35 x 35	2.75	35 x 45	2.59
		30 x 30	2.35	35 x 35	2.69	35 x 35	2.75	35 x 45	2.59
1000	108					35 x 40	3.15	35 x 40	3.15
		25 x 40	2.67	30 x 45	2.80	35 x 40	3.15	35 x 50	2.80
		30 x 35	2.71	35 x 40	3.05	35 x 40	3.15	35 x 50	2.80
1200	128								
		25 x 50	3.01	30 x 50	3.28				
		30 x 35	2.98	30 x 50	3.28	35 x 45	3.47		
1500	158								
		35 x 30	2.96	35 x 45	3.45				
		30 x 45	3.56	35 x 50	3.57	35 x 50	3.60		
1800	188								
		35 x 35	3.48	35 x 50	3.57	35 x 50	3.60		
1800	188								
		30 x 50	3.99						
1800	188								
		35 x 40	3.84						
1500	158	35 x 45	4.33						
1800	188	35 x 50	4.54						

Maximum Allowable Ripple Current (Arms) at 85°C 120Hz

Case Size  $\Phi$ D x L (mm)

LP

Large Can Aluminum Electrolytic Capacitors

Specifications are subject to change without notice. Should a safety or technical concern arise regarding the product, please be sure to contact our sales offices or agents immediately.

**STANDARD RATINGS**

Voltage (Code)		400V (2G)		420V (2M)		450V (2W)		500V (2H)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
56	566					20 x 25	0.61		
68	686	20 x 25	0.75	20 x 25	0.70	20 x 30	0.70		
						22 x 25	0.71		
82	826	20 x 30	0.82	20 x 30	0.80	20 x 35	0.80		
		22 x 25	0.84	22 x 25	0.85	22 x 25	0.86		
100	107	20 x 30	0.95	20 x 35	0.90	20 x 35	0.88	25 x 25	0.80
		22 x 30	0.99	22 x 30	0.97	22 x 30	0.95		
		25 x 25	0.99	25 x 25	0.98	25 x 25	0.97	30 x 25	0.90
120	127	20 x 35	1.07	20 x 35	1.04	20 x 40	0.99	25 x 30	0.89
		22 x 30	1.09	22 x 30	1.07	22 x 35	1.07		
		25 x 25	1.13	25 x 25	1.08	25 x 30	1.09	30 x 25	0.90
						30 x 25	1.12		
150	157	20 x 40	1.22	20 x 45	1.17	22 x 40	1.18		
		22 x 35	1.24	22 x 35	1.21	25 x 30	1.25	25 x 35	1.07
		25 x 30	1.27	25 x 30	1.26	30 x 25	1.29		
180	187	22 x 40	1.41	22 x 40	1.33	22 x 45	1.32		
		25 x 30	1.44	25 x 35	1.42	25 x 35	1.40	30 x 35	1.30
		30 x 25	1.52	30 x 25	1.48	30 x 30	1.45		
220	227	22 x 45	1.58	22 x 45	1.55	25 x 40	1.59		
		25 x 35	1.64	25 x 35	1.58	30 x 30	1.64	25 x 45	1.40
		30 x 30	1.66	30 x 30	1.65	35 x 30	1.66		
270	277	25 x 40	1.79	25 x 40	1.74	25 x 45	1.73	25 x 50	1.60
		30 x 30	1.82	30 x 35	1.90	30 x 35	1.89	30 x 40	1.55
				35 x 30	1.94	35 x 30	1.90		
330	337	25 x 45	2.00	25 x 50	2.20	30 x 40	2.12		
		30 x 35	2.05	30 x 35	1.98			30 x 45	1.80
		35 x 30	2.05	35 x 35	2.17	35 x 35	2.15		
390	397	30 x 40	2.26	30 x 40	2.22	30 x 45	2.35		
		35 x 35	2.28	35 x 35	2.27	35 x 40	2.38	30 x 50	2.10
470	477	30 x 45	2.51	30 x 45	2.50				
		35 x 40	2.54	35 x 40	2.61	35 x 45	2.68		
560	567	35 x 40	2.85	35 x 45	2.95				
680	687	35 x 50	3.10						

Maximum Allowable Ripple Current (Arms) at 85°C 120Hz

Case Size ΦD x L (mm)