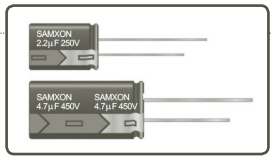
+130˚C, High Temperature (高溫度), High Ripple Current (高紋波), Long Life Assurance (長壽命)

FEATURES

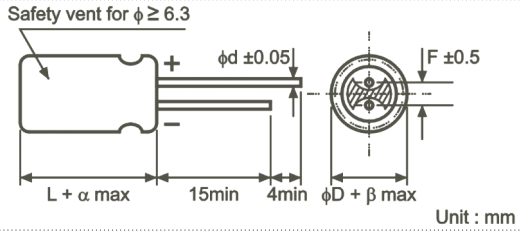


- High temperature, high ripple current at high frequency, load life of 3,000~4,000 hours at 130˚C.
- Specially designed for electronic ballast and energy saving lamp.

SPECIFICATIONS

Item	Performance Characteristics						
Operating Temperature Range	-40 to +130˚C			-25 to +130˚C			
Rated Working Voltage Range	160 to 400V			450V			
Nominal Capacitance Range	1.5 to 100µF						
Capacitance Tolerance	±20% at 120Hz, +20˚C						
Leakage Current	I ≤0.02CV +25 (µA) after 2 minutes application of rated working voltage at +20˚C						
tan δ (120Hz, +20˚C)	Working Voltage (V)	160	200	250	350	400	450
	tan δ (max.)	0.15	0.15	0.15	0.20	0.20	0.20
Low Temperature Characteristics	Impedance ratio max. at 120Hz						
	Rated Voltage (V)	160	200	250	350	400	450
	Z-25˚C / Z+20˚C	3	3	3	5	5	6
High Temperature Loading	Test time : 4,000 hours (Φ ≤12.5 : 3,000 hours) Test temperature : +130˚C Test conditions : Rated DC working voltage with rated ripple current			Post test requirements at +20˚C Leakage current : ≤Initial specified value Cap. change : within ±30% of the initial measured value tan δ : ≤300% of the initial specified value			
Shelf Life	At +105˚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 ±30% of the initial measured value tan δ : ≤300% of the initial specified value						
Industrial Standard	JIS C - 5101-4 (IEC 60384-4)						

CASE SIZE TABLE



ΦD	8 (L <20)	8 (L ≥20)	10	12.5	16	18
F	3.5	3.5	5.0	5.0	7.5	7.5
Φd	0.5	0.6	0.6	0.6	0.8	0.8
α	(L <20) 1.5			(L ≥20) 2.0		
β	(D <20) 0.5			(D ≥20) 1.0		

RIPPLE CURRENT MULTIPLIER

Frequency Coefficient

Coefficient / Freq. (Hz) / Cap (µF)	120	1k	10k	100k
1.5~5.6	0.20	0.40	0.80	1.00
6.8~100	0.40	0.75	0.90	1.00

PART NUMBER SYSTEM (EXAMPLE : 200V 100µF)

1	2 3	4 5 6	7	8 9	10	11 12	13 14
E	RB	107	M	2D	K	35	RR

- RR — Type (Radial Bulk)
- 35 — Case Length (35mm)
- K — Diameter (16mm)
- 2D — Voltage (200V)
- M — Tolerance (±20%)
- 107 — Capacitance (100µF)
- RB — Series
- E — E-CAP

SAMXON®
Aluminum Electrolytic Capacitors

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STANDARD RATINGS

Voltage (Code)		160V (2C)		200V (2D)		250V (2E)		350V (2V)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
1.8	185							10 x 16	62
2.2	225							10 x 16	70
2.8	285							10 x 16	76
3.3	335							10 x 16	84
4.7	475					10 x 16	88	10 x 20	105
5.6	565					10 x 16	88	12.5 x 20	121
6.8	685					10 x 16	96	12.5 x 20	176
8.2	825	10 x 16	96	10 x 16	100	10 x 16	104	12.5 x 20	192
10	106	10 x 16	200	10 x 16	200	10 x 16	224	12.5 x 20	224
15	156	10 x 16	336	10 x 20	336	12.5 x 20	360	12.5 x 25	240
22	226	10 x 20	400	12.5 x 20	400	12.5 x 20	480	16 x 25	252
33	336	12.5 x 20	400	12.5 x 20	480	12.5 x 25	480		
47	476	12.5 x 25	528	12.5 x 25	528	16 x 25	518		
68	686	16 x 25	547	16 x 25	547				
100	107	16 x 25	806						

Maximum Allowable Ripple Current (mArms) at 130˚C 100kHz

Case Size ΦD x L (mm)

Voltage (Code)		400V (2G)		450V (2W)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current
1.5	155			10 x 16	70
1.8	185	10 x 16	72	10 x 16	74
2.2	225	10 x 16	74	10 x 16	77
2.8	285	10 x 16	80	10 x 16	80
3.3	335	10 x 16	88	10 x 16	88
4.7	475	10 x 20	104	10 x 20	104
5.6	565	12.5 x 20	112	12.5 x 20	112
6.8	685	12.5 x 20	176	12.5 x 20	120
8.2	825	12.5 x 20	208	12.5 x 20	224
10	106	12.5 x 20	224	12.5 x 20	256
15	156	12.5 x 25	256	12.5 x 25	336

Maximum Allowable Ripple Current (mArms) at 130˚C 100kHz

Case Size ΦD x L (mm)