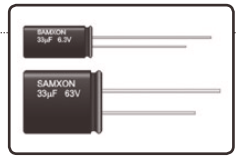
FEATURES

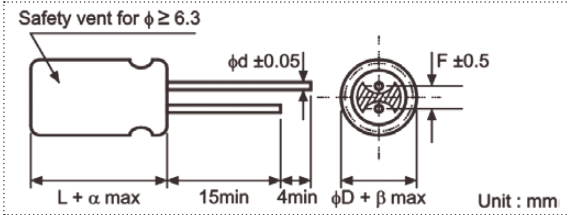


- Standard non-polarized series for entertainment electronics.

SPECIFICATIONS

Item	Performance Characteristics
Operating Temperature Range	-40 to +85˚C
Rated Working Voltage Range	6.3 to 100V
Nominal Capacitance Range	2.2 to 6800μF
Capacitance Tolerance	±20% at 120Hz, +20˚C
Leakage Current	I ≤0.03CV or 3 (μA) whichever is greater measured after 5 minutes application of rated working voltage at +20˚C
tan δ (120Hz, +20˚C)	Working Voltage (V): 6.3 / 10 / 16 / 25 / 35 / 50 / 63 / 100 Tan δ (max.): 0.26 / 0.24 / 0.22 / 0.20 / 0.16 / 0.14 / 0.12 / 0.10 For capacitance value >1000μF, add 0.02 per another 1000μF
Low Temperature Characteristics	Impedance ratio max. at 120Hz Working Voltage (V): 6.3 / 10 / 16 / 25 / 35 / 50 / 63 / 100 Z-25˚C / Z+20˚C: 4 / 3 / 2 / 2 / 2 / 2 / 2 / 2 Z-40˚C / Z+20˚C: 10 / 8 / 6 / 5 / 4 / 4 / 3 / 3
High Temperature Loading	Test time : 1,000 hours Test temperature : +85˚C Test conditions : Rated DC working voltage to each polarity every 250 hours Post test requirements at +20˚C Leakage current : ≤Initial specified value 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 ±20% of the initial measured value tan δ : ≤200% of the initial specified value
Industrial Standard	JIS C - 5101-4 (IEC 60384-4)

CASE SIZE TABLE



ΦD	5	6.3	8 (L <20)	8 (L ≥20)	10	12.5	16	18
F	2.0	2.5	3.5	3.5	5.0	5.0	7.5	7.5
Φd	0.5	0.5	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)	50	120	300	1k	10k~
≤47	0.75	1.00	1.35	1.57	2.00
68~470	0.80	1.00	1.23	1.34	1.50
≥560	0.85	1.00	1.10	1.13	1.15

PART NUMBER SYSTEM (EXAMPLE : 16V 100μF)

1	2 3	4 5 6	7	8 9	10	11 12	13 14
E	NP	107	M	1C	F	12	RR

- RR — Type (Radial Bulk)
- 12 — Case Length (12mm)
- F — Diameter (8mm)
- 1C — Voltage (16V)
- M — Tolerance (±20%)
- 107 — Capacitance (100μF)
- NP — Series
- E — E-CAP

SAMXON®
Aluminum Electrolytic Capacitors

+85˚C, Non-polar (無極性)

STANDARD RATINGS

Voltage (Code)		6.3V (0J)		10V (1A)		16V (1C)		25V (1E)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
4.7	475							5 x 11	26
10	106					5 x 11	42	5 x 11	42
22	226			5 x 11	57	5 x 11	57	6.3 x 11	65
33	336	5 x 11	64	5 x 11	64	5 x 11	70	6.3 x 11	80
47	476	5 x 11	76	5 x 11	76	6.3 x 11	95	6.3 x 11	95
100	107	6.3 x 11	125	6.3 x 11	125	8 x 12	160	8 x 12	160
220	227	8 x 12	215	8 x 12	215	10 x 12.5	275	10 x 16	305
330	337	8 x 12	265	10 x 16	345	10 x 16	375	12.5 x 20	450
470	477	10 x 12.5	370	10 x 16	410	10 x 20	485	12.5 x 20	540
1000	108	10 x 20	650	12.5 x 20	720	12.5 x 25	855	16 x 25	950
2200	228	12.5 x 25	1160	16 x 25	1280	16 x 30	1510	18 x 35	1620
3300	338	16 x 25	1570	16 x 30	1690	18 x 35	1980		
4700	478	16 x 30	2020	18 x 35	2160				
6800	688	18 x 35	2600						

Maximum Allowable Ripple Current (mArms) at 85˚C 120Hz

Case Size ΦD x L (mm)

Voltage (Code)		35V (1V)		50V (1H)		63V (1J)		100V (2A)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
2.2	225			5 x 11	25			6.3 x 11	34
3.3	335			5 x 11	27	5 x 11	28	6.3 x 11	39
4.7	475	5 x 11	34	5 x 11	34	6.3 x 11	34	6.3 x 11	47
10	106	5 x 11	43	6.3 x 11	52	6.3 x 11	57	8 x 12	71
22	226	6.3 x 11	73	8 x 12	89	8 x 12	95	10 x 16	135
33	336	8 x 12	100	8 x 12	105	10 x 12.5	135	12.5 x 20	220
47	476	8 x 12	120	10 x 12.5	150	10 x 16	180	12.5 x 20	240
68	686			10 x 16	198				
100	107	10 x 16	230	10 x 20	265	12.5 x 20	320	16 x 25	425
220	227	12.5 x 20	410	12.5 x 25	480	16 x 25	575	18 x 35	720
330	337	12.5 x 20	505	16 x 25	650	16 x 30	655		
470	477	12.5 x 25	655	16 x 30	835	18 x 35	965		
1000	108	16 x 30	1140						

Maximum Allowable Ripple Current (mArms) at 85˚C 120Hz

Case Size ΦD x L (mm)