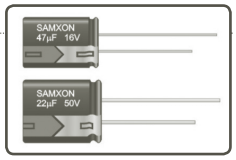
FEATURES

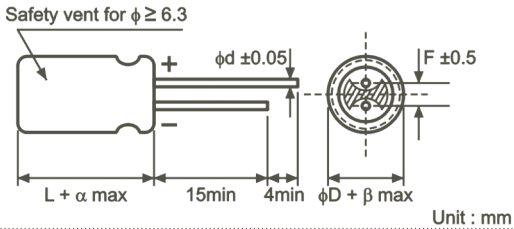


- Wide operating temperature range, it as long load life product at 125˚C.
- Suitable for use in DC or pulse circuits in various electronic and industrial.

SPECIFICATIONS

Item	Performance Characteristics
Operating Temperature Range	-40 to +125˚C
Rated Working Voltage Range	10 to 50V
Nominal Capacitance Range	3.3 to 3900μF
Capacitance Tolerance	±20% at 120Hz, +20˚C
Leakage Current	I ≤0.03CV or 4 (μA) whichever is greater measured after 1 minute application of rated working voltage at +20˚C
tan δ (120Hz, +20˚C)	Working Voltage (V): 10 / 16 / 25 / 35 / 50 tan δ (max.): 0.22 / 0.18 / 0.16 / 0.14 / 0.12 For capacitance value >1000μF, add 0.02 per another 1000μF
Low Temperature Characteristics	Impedance ratio max. at 120Hz Working Voltage (V): 10 / 16 / 25 / 35 / 50 Z-25˚C / Z+20˚C: 3 / 2 / 2 / 2 / 2 Z-40˚C / Z+20˚C: 6 / 4 / 4 / 4 / 4
High Temperature Loading	Test time : ΦD: <8 / ≥8; Load life: 1,000h / 2,000h Test temperature : +125˚C Test conditions : Rated DC working voltage with rated ripple current Post test requirements at +20 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 +125˚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

Rated Voltage	Coefficient / Freq. (Hz) / Cap (μF)	50	120	300	1k	10k~100k
10~50V	≤47	0.75	1.00	1.35	1.57	2.00
	100~470	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 330μF)

1	2 3	4 5 6	7	8 9	10	11 12	13 14
E	BD	337	M	1C	F	12	RR

- 13 14: Type (Radial Bulk)
- 11 12: Case Length (12mm)
- 10: Diameter (8mm)
- 8 9: Voltage (16V)
- 7: Tolerance (±20%)
- 4 5 6: Capacitance (330μF)
- 2 3: Series
- 1: E-CAP

SAMXON®
Aluminum Electrolytic Capacitors

+125˚C, High Temperature (高溫度)

STANDARD RATINGS

Voltage (Code)		10V (1A)		16V (1C)		25V (1E)		35V (1E)		50V (1H)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
3.3	335									5 x 11	21
4.7	475									5 x 11	26
10	106									5 x 11	38
22	226							5 x 11	47	5 x 11	55
33	336					5 x 11	53	5 x 11	56	6.3 x 11	81
47	476			5 x 11	56	5 x 11	59	6.3 x 11	84	6.3 x 11	93
100	107	5 x 11	74	5 x 11	88	6.3 x 11	111	6.3 x 11	118	8 x 12	160
220	227	6.3 x 11	135	6.3 x 11	149	8 x 12	200	10 x 12.5	240		
330	337	6.3 x 11	167	8 x 12	221	8 x 12	238				
470	477	8 x 12	237	8 x 12	256	10 x 16	366				
1000	108					10 x 20	575				
2200	228					12.5 x 25	908				
3900	398					16 x 30	1356				

Maximum Allowable Ripple Current (mArms) at 125˚C 120Hz

Case Size ΦD x L (mm)