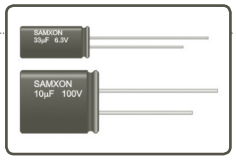
FEATURES

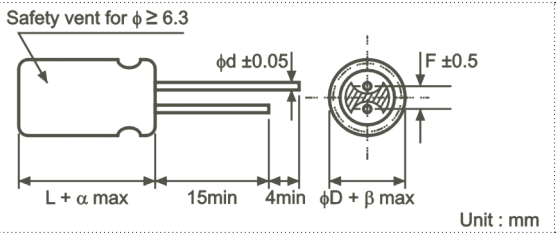


- Nonpolar, high temperature.
- Suitable for use in polarity and change circuits.

SPECIFICATIONS

Item	Performance Characteristics
Operating Temperature Range	-40 to +105˚C
Rated Working Voltage Range	6.3 to 100V
Nominal Capacitance Range	2.2 to 1000μF
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
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: 8 / 6 / 4 / 4 / 3 / 3 / 3 / 3
High Temperature Loading	Test time : 1,000 hours Test temperature : +105˚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 +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 ±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
F	2.0	2.5	3.5	3.5	5.0	5.0	7.5
Φd	0.5	0.5	0.5	0.6	0.6	0.6	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
68~220	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 : 10V 47μF)

1	2 3	4 5 6	7	8 9	10	11 12	13 14
E	NH	476	M	1A	E	11	RR

- 13 14: Type (Radial Bulk)
- 11 12: Case Length (11mm)
- 10: Diameter (6.3mm)
- 8 9: Voltage (10V)
- 7: Tolerance (±20%)
- 4 5 6: Capacitance (47μF)
- 2 3: Series
- 1: E-CAP

SAMXON®
Aluminum Electrolytic Capacitors
+105˚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	23
10	106					5 x 11	30	5 x 11	34
22	226			5 x 11	42	6.3 x 11	51	6.3 x 11	55
33	336	5 x 11	46	6.3 x 11	57	6.3 x 11	63	8 x 12	79
47	476	6.3 x 11	61	6.3 x 11	67	8 x 12	89	10 x 12.5	100
100	107	8 x 12	104	10 x 12.5	125	10 x 12.5	139	10 x 16	164
220	227	10 x 12.5	168	10 x 16	204	10 x 20	279	12.5 x 25	336
330	337	10 x 16	229	10 x 20	275	12.5 x 20	346	12.5 x 25	414
470	477	10 x 20	330	12.5 x 20	371	12.5 x 25	460	16 x 25	543
1000	108	12.5 x 25	550	16 x 25	668	16 x 25	746	16 x 30	871

Maximum Allowable Ripple Current (mArms) at 105˚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	18			6.3 x 11	22
3.3	335			5 x 11	22	6.3 x 11	26	8 x 12	32
4.7	475	5 x 11	25	6.3 x 11	29	6.3 x 11	31	8 x 12	39
10	106	6.3 x 11	40	8 x 12	51	8 x 12	53	10 x 12.5	64
22	226	8 x 12	68	10 x 12.5	82	10 x 16	96	10 x 20	114
33	336	10 x 12.5	89	10 x 16	107	10 x 20	129	12.5 x 20	164
47	476	10 x 12.5	111	10 x 20	146	10 x 20	157	12.5 x 25	200
100	107	10 x 20	196	12.5 x 25	264	12.5 x 25	275	16 x 25	304
220	227	12.5 x 25	364	16 x 25	443	16 x 30	486		
330	337	16 x 25	493	16 x 30	593				
470	477	16 x 25	586						

Maximum Allowable Ripple Current (mArms) at 105˚C 120Hz Case Size ΦD x L (mm)