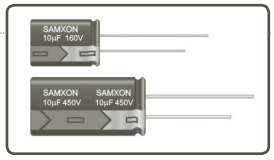
FEATURES

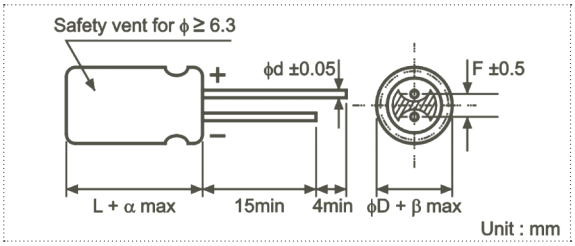


- High ripple current at high frequency, load life of 10,000~12,000 hours at 105˚C.
- For electronic ballast.

SPECIFICATIONS

Item	Performance Characteristics							
Operating Temperature Range	-40 to +105˚C				-25 to +105˚C			
Rated Working Voltage Range	160 to 400V				450 to 500V			
Nominal Capacitance Range	1 to 220μF							
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	500
	tan δ (max.)	0.15	0.15	0.15	0.20	0.20	0.20	0.20
Low Temperature Characteristics	Impedance ratio max. at 120Hz							
	Rated Voltage (V)	160	200	250	350	400	450	500
	Z-25˚C / Z+20˚C	3	3	3	5	5	6	12
High Temperature Loading	Test time : ΦD 8~10 12.5~18 500V Load life 10,000h 12,000h 10,000h Test temperature : +105˚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 ±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	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
1~5.6	0.20	0.40	0.80	1.00
6.8~180	0.40	0.75	0.90	1.00
≥220	0.50	0.85	0.94	1.00

PART NUMBER SYSTEM (EXAMPLE : 160V 22μF)

1	2 3	4 5 6	7	8 9	10	11 12	13 14
E	R H	226	M	2C	G	20	RR

- RR — Type (Radial Bulk)
- 20 — Case Length (20mm)
- G — Diameter (10mm)
- 2C — Voltage (160V)
- M — Tolerance (±20%)
- 226 — Capacitance (22μF)
- RH — Series
- E — E-CAP

SAMXON®
Aluminum Electrolytic Capacitors

+105˚C, Longest Life Assurance (更長壽命), High Ripple Current (高紋波)

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
6.8	685							10 x 16	220
10	106	10 x 16	250	10 x 16	250	10 x 20	300	10 x 20	280
22	226	10 x 20	500	10 x 20	500	12.5 x 20	600	12.5 x 25	350
33	336	10 x 20	565	12.5 x 20	600	12.5 x 20	630	16 x 20	600
47	476	12.5 x 20	725	12.5 x 20	780	12.5 x 25	720	16 x 25	700
						16 x 20	750	18 x 20	750
68	686	12.5 x 25	950	12.5 x 25	950	16 x 25	1000	16 x 30	1100
		16 x 20	970	16 x 20	970	18 x 20	920	18 x 25	875
100	107	16 x 25	1280	16 x 25	1280	16 x 30	1400		
		18 x 20	1180	18 x 20	1180	18 x 25	1345		
150	157	16 x 30	1360	16 x 30	1360	18 x 30	1500		
		18 x 25	1360	18 x 25	1360				
220	227	16 x 30	1400	18 x 30	1700				
		18 x 25	1400						

Maximum Allowable Ripple Current (mArms) at 105˚C 100kHz — Case Size ΦD x L (mm)

Voltage (Code)		400V (2G)		450V (2W)		500V (2H)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
1	105	8 x 12	38				
1.5	155	8 x 12	72				
		10 x 12.5	80				
1.8	185	8 x 12	76				
		10 x 12.5	96				
2.2	225	8 x 12	76				
		10 x 12.5	112				
3.3	335	10 x 12.5	120				
4.7	475	10 x 16	176	10 x 20	120		
5.6	565	10 x 16	200	10 x 20	135		
6.8	685	10 x 16	220	10 x 20	150		
10	106	10 x 20	280	12.5 x 20	320	12.5 x 20	240
15	156			16 x 25	560	12.5 x 25	300
				18 x 20	560	16 x 20	300
22	226	12.5 x 25	430	16 x 25	560	16 x 25	430
		16 x 20	600	18 x 20	560	18 x 20	430
33	336	16 x 25	640	16 x 30	700	16 x 30	540
		18 x 20	640	18 x 25	700	18 x 25	540
47	476	16 x 30	840	18 x 30	900	18 x 30	640
		18 x 25	840				
68	686	18 x 30	1000			18 x 35	750
82	826					18 x 45	800

Maximum Allowable Ripple Current (mArms) at 105˚C 100kHz — Case Size ΦD x L (mm)