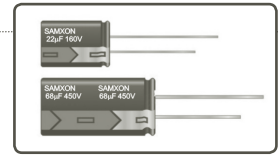


FEATURES

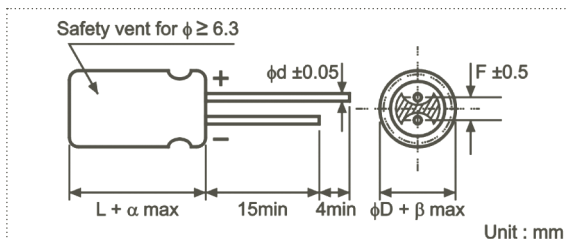
- High ripple current at high frequency, load life of 8,000~10,000 hours at 105°C.
- For electronic ballast, power supply input circuit.



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 330μF							
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	Post test requirements at +20°C			
		Load life	8,000h	10,000h	Leakage current : ≤Initial specified value			
	Test temperature	: +105°C				Cap. change : within ±20% of the initial measured value		
	Test conditions	: Rated DC working voltage with rated ripple current				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 ($L \geq 20$)	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)	120	1k	10k	100k
Cap (μF)				
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 : 350V 33 μ F)

1	2 3	4 5 6	7	8 9	10	11 12	13 14
E	RD	336	M	2V	K	20	RR

```

graph LR
    E-CAP --> Series
    Series --> Capacitance["Capacitance (33µF)"]
    Series --> Tolerance["Tolerance (±20%)"]
    Series --> Voltage["Voltage (350V)"]
    Series --> Diameter["Diameter (16mm)"]
    Series --> CaseLength["Case Length (20mm)"]
    Series --> Type["Type (Radial Bulk)"]
  
```

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
10	106							10 x 20	350
22	226	10 x 20	500	10 x 20	600	10 x 20	560	12.5 x 20	480
33	336	10 x 20	580	10 x 20	650	12.5 x 20	710	16 x 20	640
47	476	10 x 20	750	12.5 x 20	790	12.5 x 25	920	16 x 25	800
						16 x 20	990	18 x 20	800
68	686	12.5 x 20	950	12.5 x 25	950	16 x 20	1000	16 x 30	1100
				16 x 20	1000			18 x 25	1000
82	826	12.5 x 25	1060	16 x 20	1100	16 x 25	1200	18 x 25	1100
						18 x 20	1200		
100	107	12.5 x 25	1170	16 x 25	1300	16 x 30	1500	18 x 30	1200
		16 x 20	1280	18 x 20	1280	18 x 25	1500		
150	157	16 x 25	1400	16 x 25	1400	18 x 30	1800		
		18 x 20	1400						
220	227	16 x 30	1700	18 x 30	2000	18 x 40	2100		
		18 x 25	1500						
330	337	18 x 30	2000	18 x 40	2400				

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	41				
1.5	155	8 x 12	77				
		10 x 12.5	86				
1.8	185	8 x 12	81				
		10 x 12.5	103				
2.2	225	8 x 12	81				
		10 x 12.5	120				
3.3	335	10 x 12.5	128				
4.7	475	10 x 16	188	10 x 20	128		
5.6	565	10 x 16	214	10 x 20	144		
6.8	685	10 x 16	230	10 x 20	160		
10	106	10 x 20	300	12.5 x 20	350	12.5 x 20	280
15	156	12.5 x 20	410	12.5 x 25	560	12.5 x 25	390
						16 x 20	390
22	226	12.5 x 25	500	16 x 20	680	16 x 25	500
		16 x 20	600			18 x 20	500
33	336	16 x 20	730	16 x 25	785		
				16 x 30	850	16 x 30	630
				18 x 25	850	18 x 25	630
47	476	16 x 25	840	16 x 25	864	18 x 30	750
		18 x 20	840	18 x 30	1000		
68	686	18 x 30	1200	18 x 24	1036	18 x 35	890
				18 x 30	1140		
82	826	18 x 40	1500			18 x 45	980

Maximum Allowable Ripple Current (mArms) at 105°C 100kHz

Case Size ΦD x L (mm)

Specifications are subject to change without notice. Should a safety or technical concern arise regarding the product, please be sure to contact our sales offices or agents immediately.