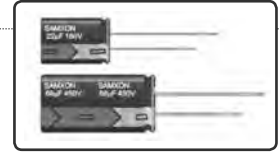


FEATURES

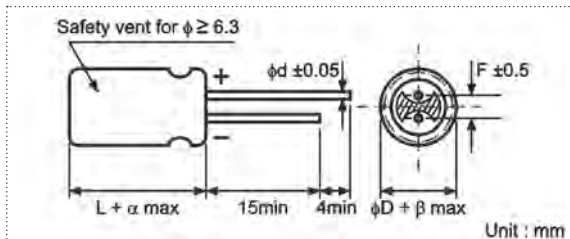
- High ripple current at high frequency, load life of 8,000~10,000 hours at 105°C.
- For electronic ballast, power supply input circuit.



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	D 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	Test conditions : Rated DC working voltage with rated ripple current			tan δ : ≤ 200% of the initial specified value			Cap. change : within ±20% of the initial measured 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



D	8 (L < 20)	8 (L ≥ 20)	10	12.5	16	18
F	3.5	3.5	5.0	5.0	7.5	7.5
d	0.5	0.6	0.6	0.6	0.8	0.8
	(L < 20) 1.5			(L ≥ 20) 2.0		
	(D < 20) 0.5			(D ≥ 20) 1.0		

RIPPLE CURRENT MULTIPLIER

Frequency Coefficient

Coefficient	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 33µF)

1	23	456	7	89	10	1112	1314
E	RD	336	M	2V	K	20	RR

Type (Radial Bulk)
 Case Length (20mm)
 Diameter (16mm)
 Voltage (350V)
 Tolerance (±20%)
 Capacitance (33µF)
 Series
 E-CAP

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 16	342	10 x 20	350
22	226	10 x 20	500	10 x 16	544	10 x 16	508	12.5 x 20	480
				10 x 20	600	10 x 20	560		
33	336	10 x 20	580	10 x 20	650	12.5 x 20	710	16 x 20	640
						16 x 15	728		
47	476	10 x 20	750	10 x 20	697	12.5 x 20	834	16 x 25	800
				12.5 x 20	790	12.5 x 25	920	18 x 20	800
						16 x 20	990	16 x 30	1100
68	686	12.5 x 20	950	12.5 x 20	861			18 x 20	910
				12.5 x 25	950	16 x 20	1000	18 x 25	1000
				16 x 20	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 25	1385	18 x 25	1110
		16 x 20	1280	18 x 20	1280	16 x 30	1500	18 x 30	1200
		16 x 25	1400			18 x 25	1500		
150	157	18 x 20	1400	16 x 25	1400	18 x 25	1665		
		16 x 30	1700			18 x 30	1800		
220	227	18 x 25	1500	18 x 30	2000	18 x 40	2100		
330	337	18 x 30	2000	18 x 40	2400				

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

Case Size D 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	6.3 x 11	34				
		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	8 x 12	110				
		10 x 12.5	128				
4.7	475	8 x 12	146	10 x 20	128		
		10 x 16	188				
5.6	565	10 x 16	214	10 x 20	144		
		10 x 12.5	207				
6.8	685	10 x 16	230	10 x 20	160		
		10 x 16	276	10 x 20	309	12.5 x 20	280
10	106	10 x 20	300	12.5 x 20	350		
				12.5 x 20	508	12.5 x 25	390
15	156	12.5 x 20	410	12.5 x 25	560	16 x 20	390
				12.5 x 20	590	16 x 25	500
22	226	12.5 x 25	500	12.5 x 25	651	18 x 20	500
		16 x 20	600	16 x 20	680		
				12.5 x 25	683		
33	336	12.5 x 25	698	16 x 25	785	16 x 30	630
					975*		
		16 x 20	730	16 x 30	850	18 x 25	630
				18 x 25	850		
47	476	16 x 20	764	16 x 25	1250*		
		16 x 25	840	16 x 30	936	18 x 30	750
		18 x 20	840	18 x 30	1000		
				18 x 24	1450*		
68	686	18 x 25	1110	18 x 25	1054	18 x 35	890
		18 x 30	1200		1550*		
				18 x 30	1140		
82	826	18 x 25	1550				
		18 x 40	1500			18 x 45	980

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

Case Size D x L (mm)

* Special item with higher ripple current.

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.