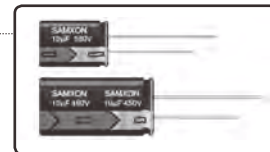


FEATURES

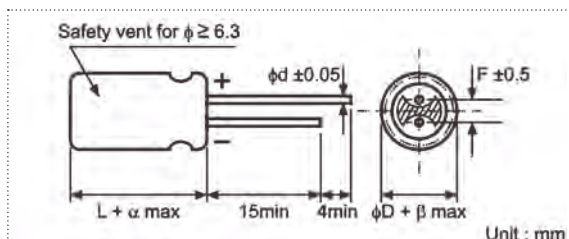
- High ripple current at high frequency, load life of 10,000~12,000 hours at 105°C.
- For electronic ballast.



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	Post test requirements at +20°C		
		Load life	10,000h	12,000h	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



Φ 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
Φ d	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		

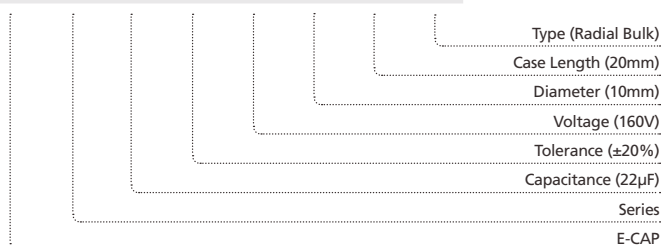
RIPPLE CURRENT MULTIPLIER

Frequency Coefficient

Coefficient 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



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 Φ 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	8 x 12	38				
		8 x 12	72				
1.5	155	10 x 12.5	80				
		8 x 12	76				
1.8	185	10 x 12.5	96				
		8 x 12	76				
2.2	225	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
				16 x 25	560	12.5 x 25	300
15	156			18 x 20	560	16 x 20	300
		12.5 x 25	430	16 x 25	560	16 x 25	430
22	226	16 x 20	600	18 x 20	560	18 x 20	430
		16 x 25	640	16 x 30	700	16 x 30	540
33	336	18 x 20	640	18 x 25	700	18 x 25	540
		16 x 30	840	18 x 30	900	18 x 30	640
47	476	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 Φ D 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.

Part Number System (產品編碼)

1 2 3			4 5 6			7	8 9		10 11 12			13 14		15 16		17	
E G S			1 0 5			M	1 H		D 1 1			T C		S A		P	
Series			Capacitance			Tolerance	Voltage		Case Size			Type		SAMSXON Product Line		Sleeve Material	
Series	Cap (uF)	Code	Tol. (%)	Code	Vol. (W.V.)	Code	Case Size		Feature		Code	SAMSXON Product Line					
EKF	0.1	104	±5	J	2	0D	Diameter(Φ)	Code	Radial bulk	RR	For internal use only (The product lines we have H,A,B,C,D,E,M or 0,1,2,3,4,5,9).						
EKS			±10	K	2.5	0E	3	B									
EGS			±15	L	4	0G	3.5	1									
EKM	0.22	224	±15	L	6.3	0J	4	C	Ammo Taping								
EKG			±20	M	8	0K	5	D	2.0mm Pitch	TT							
EOM			±30	N	10	1A	6.3	E	2.5mm Pitch	TU							
EGF	0.33	334	±20	M	12.5	1B	8	F	3.5mm Pitch	TV	Sleeve Material						
ESF			±30	N	16	1C	10	G	5.0mm Pitch	TC							
EGT			±30	N	20	1D	12.5	I	Lead Cut & Form								
EGK	1	105	-40 0	W	25	1E	13	J	CB-Type	CB	PET						
ESK			-20 0	A	30	1I	13.5	V	CE-Type	CE							
ESH			-20 0	A	32	1I	14	4	HE-Type	HE							
ERS	2.2	225	-20 0	A	35	1V	14.5	A	KD-Type	KD	PVC						
EGY			-20 +10	C	40	1G	16	K	FD-Type	FD							
ERF			-20 +10	C	42	1M	16.5	7	EH-Type	EH							
ERR	3.3	335	-20 +10	C	50	1H	18	L	PCB Terminal			Snap-in					
ERT			-20 +40	X	57	1L	18.5	8									
ERE			-20 +40	X	63	1J	20	M									
ERD	10	106	-20 +50	S	71	1S	22	N	Lug	SG	Screw						
ERH			-10 0	B	75	1T	25	O									
EBD			-10 +50	T	80	1K	30	P									
ERA	22	226	-10 0	B	85	1R	34	W	Snap-in	SX	SZ						
ERB			-10 +50	T	90	19	42	4									
ERC			-10 +50	T	90	19	45	6									
EFA	33	336	-10 0	B	90	1R	51	S	Lug	SG	Screw						
ENP			-10 +20	V	100	2A	51	T									
ENH			-10 +20	V	120	2O	76	U									
ERW	100	107	-10 +30	Q	125	2B	77	7	Snap-in	SX	SZ						
ERY			-10 +30	Q	150	2Z	80	8									
ELP			-10 +50	T	160	2C	80	8									
EAP	220	227	-10 +50	T	180	2P	80	8	Lug	SG	Screw						
EQP			-10 +50	T	200	2D	90	X									
EDP			-10 +50	T	215	22	90	X									
ETP	330	337	+13 +50	E	220	2N	100	Z	Snap-in	SX	SZ						
EHP			+13 +50	E	230	23	105	1K									
EUP			+13 +50	E	250	2E	105	1K									
EKP	2200	228	-5 +15	F	275	2T	11	11	Lug	SG	Screw						
EPK			-5 +15	F	280	2F	11.5	1A									
EEP			-5 +20	G	290	2R	12	12									
EFP	22000	229	0 +20	R	300	2I	12.5	1B	Snap-in	SX	SZ						
ESP			0 +20	R	310	2R	13	13									
EVP			0 +20	R	315	2F	13.5	1C									
EGP	33000	339	0 +20	R	330	2U	20	20	Lug	SG	Screw						
EWR			0 +30	O	350	2V	25	25									
EWI			0 +30	O	360	2X	29.5	2J									
EWT	47000	479	0 +30	O	375	2Q	30	30	Snap-in	SX	SZ						
EWX			0 +50	I	385	2Y	31.5	3A									
EWY			0 +50	I	400	2G	35	35									
EWZ	100000	10T	0 +50	I	420	2M	35.5	3E	Lug	SG	Screw						
EWV			0 +50	I	440	2L	50	50									
EWU			0 +50	I	460	2K	55	55									
EWL	150000	15T	+5 +15	Z	480	2W	60	60	Snap-in	SX	SZ						
EWJ			+5 +15	Z	500	2H	65	65									
EWI			+5 +15	Z	520	2J	70	70									
EWB	220000	22T	+5 +20	D	550	2S	75	75	Lug	SG	Screw						
VSS			+5 +20	D	580	2T	80	80									
VKS			+5 +20	D	600	26	85	85									
VKM	330000	33T	+10 +50	H	630	2J	90	90	Snap-in	SX	SZ						
VRL			+10 +50	H	660	27	95	95									
VZS			+10 +50	H	680	28	100	100									
VRF	1000000	10M							Lug	SG	Screw						
VRL																	
VZS																	
VRF	1500000	15M							Snap-in	SX	SZ						
VRL																	
VZS																	
VRF	2200000	22M							Lug	SG	Screw						
VRL																	
VZS																	
VRF	3300000	33M							Snap-in	SX	SZ						
VRL																	
VZS																	