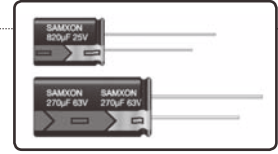


+105°C, Highest Ripple Current (更高紋波), Longest Life Assurance (更長壽命), Lower Impedance (較低阻抗)

FEATURES

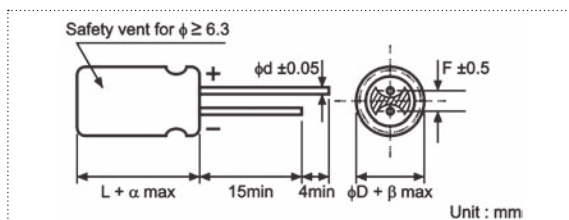
- Higher ripple current than GT series and Lower Impedance than GY series.
- Load life of 6,000~10,000 hours at 105°C.
- Enabled high ripple current by a reduction of impedance at high frequency range.
- Lowest impedance for personal computer and storage equipment.



SPECIFICATIONS

Item	Performance Characteristics									
Operating Temperature Range	-40 to +105°C									
Rated Working Voltage Range	6.3 to 100V									
Nominal Capacitance Range	33 to 8200µF									
Capacitance Tolerance	±20% at 120Hz, +20°C									
Leakage Current	I ≤0.01CV or 3(µA) whichever is greater measured after 2 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	80	100
	tan δ (max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08	0.08
For capacitance > 1000µF, add 0.02 per another 1000µF										
Low Temperature Characteristics	Impedance ratio max. at 120Hz									
	Working Voltage (V)	6.3	10	16	25	35	50	63	80	100
	Z-25°C / Z+20°C	2	2	2	2	2	2	2	2	2
High Temperature Loading	Test time	ΦD	6.3V	10-50V	63-100V	Post test requirements at +20°C Leakage current : ≤Initial specified value Cap. change : within ±25% of the initial measured value (6.3, 10V: within ±30%) tan δ : ≤200% of the initial specified value				
		≤6.3	6,000h	7,000h	6,000h					
		8 x 12	8,000h	9,000h	8,000h					
		10 x 12.5	9,000h	9,000h	9,000h					
		8 x 16, 8 x 20	9,000h	10,000h	9,000h					
		10 x 16, 10 x 20, 10 x 25, ≥12.5	10,000h							
	Test temperature	: +105°C								
Test conditions	: Rated DC working voltage with rated ripple current									
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 ±25% of the initial measured value (6.3, 10V: within ±30%)								
	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	18
F	2.0	2.5	3.5	3.5	5.0	5.0	7.5	7.5
Φd	0.5	0.5	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) Freq. (Hz)	120	1K	10K	100K
33~270	0.50	0.73	0.92	1.00
330~680	0.55	0.77	0.94	1.00
820~1800	0.60	0.80	0.96	1.00
2200~8200	0.70	0.85	0.98	1.00

PART NUMBER SYSTEM (EXAMPLE : 16V 1000μF)

1	2 3	4 5 6	7	8 9	10	11 12	13 14
E	SK	108	M	1C	G	16	RR

Type (Radial Bulk)
Case Length (16mm)
Diameter (10mm)
Voltage (16V)
Tolerance ($\pm 20\%$)
Capacitance (1000 μ F)
Series
E-CAP

STANDARD RATINGS

Voltage (Code)		6.3V (0J)			10V (1A)			16V (1C)		
Cap. (μF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current
270	277							6.3 x 12	0.170	700
330	337				6.3 x 12	0.170	700			
470	477	6.3 x 12	0.170	540				8 x 12	0.075	1200
560	567				8 x 12	0.075	1200	8 x 16	0.059	1600
680	687				8 x 16	0.059	1600	10 x 12.5	0.053	1700
820	827	8 x 12	0.075	945	10 x 12.5	0.053	1700	8 x 20	0.041	1960
1000	108	8 x 16	0.059	1250	8 x 20	0.041	1960	10 x 16	0.038	2000
1200	128	10 x 12.5	0.053	1330	10 x 16	0.038	2000			
1500	158	8 x 20	0.041	1500				10 x 20	0.028	2500
1800	188	10 x 16	0.038	1760	10 x 20	0.028	2500	10 x 25	0.024	2900
2200	228				10 x 25	0.024	2900	12.5 x 20	0.025	2600
2700	278	10 x 20	0.028	1960	12.5 x 20	0.025	2600	12.5 x 25	0.019	3200
3300	338	10 x 25	0.024	2250	12.5 x 25	0.019	3200	12.5 x 30	0.018	3660
								16 x 20	0.021	3330
3900	398	12.5 x 20	0.025	2480				12.5 x 35	0.016	4120
4700	478	12.5 x 25	0.019	2900	12.5 x 30	0.018	3660	16 x 25	0.017	3810
					16 x 20	0.021	3330			
5600	568	12.5 x 30	0.018	3450	12.5 x 35	0.016	4120			
					16 x 25	0.017	3810			
6800	688	16 x 20	0.021	3250						
		12.5 x 35	0.016	3570						
8200	828	16 x 25	0.017	3630						

Maximum Allowable Ripple Current (mA_{rms}) at 105°C 100kHz

Case Size ΦD x L (mm)

Maximum Impedance (Ω) at 20°C 100kHz

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.

STANDARD RATINGS

Voltage (Code)		25V (1E)			35V (1V)			50V (1H)		
Cap. (μF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current
56	566							6.3 x 12	0.220	500
100	107				6.3 x 12	0.170	700	8 x 12	0.120	950
120	127							8 x 16	0.082	1230
150	157	6.3 x 12	0.170	700				10 x 12.5	0.073	1280
180	187				8 x 12	0.075	1200	8 x 20	0.058	1580
220	227				8 x 16	0.059	1600	10 x 16	0.053	1650
270	277				10 x 12.5	0.053	1700			
330	337	8 x 12	0.075	1200	8 x 20	0.041	1960	10 x 20	0.038	2060
390	397	8 x 16	0.059	1600	10 x 16	0.038	2000	10 x 25	0.032	2420
470	477	10 x 12.5	0.053	1700				12.5 x 20	0.032	2300
560	567	8 x 20	0.041	1960	10 x 20	0.028	2500			
680	687	10 x 16	0.038	2000	10 x 25	0.024	2900	12.5 x 25	0.025	2800
820	827				12.5 x 20	0.025	2600	12.5 x 30	0.023	3370
								16 x 20	0.026	3070
1000	108	10 x 20	0.028	2500				12.5 x 35	0.021	3810
								16 x 25	0.022	3510
1200	128	10 x 25	0.024	2900	12.5 x 25	0.019	3200			
1500	158	12.5 x 20	0.025	2600	12.5 x 30	0.018	3660			
					16 x 20	0.021	3330			
1800	188	12.5 x 25	0.019	3200	12.5 x 35	0.016	4120			
					16 x 25	0.017	3810			
2200	228	16 x 20	0.021	3330						
		12.5 x 30	0.018	3660						
2700	278	12.5 x 35	0.016	4120						
3300	338	16 x 25	0.017	3810						

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

Case Size Φ D x L (mm)

Maximum Impedance (Ω) at 20°C 100kHz

STANDARD RATINGS

Voltage (Code)		63V (1J)			80V (1K)			100V (2A)		
Cap. (μF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current
33	336							8 x 12	0.290	620
47	476				8 x 12	0.290	620	8 x 16	0.200	780
56	566				8 x 16	0.200	780	10 x 12.5	0.170	780
68	686				10 x 12.5	0.170	780	8 x 20	0.160	1040
82	826	8 x 12	0.180	720	8 x 20	0.160	1040	10 x 16	0.110	1040
100	107	8 x 16	0.130	990	10 x 16	0.110	1040	10 x 20	0.084	1430
120	127	10 x 12.5	0.110	990				12.5 x 16	0.110	1430
								10 x 25	0.069	1620
150	157	8 x 20	0.096	1200	10 x 20	0.084	1430	12.5 x 20	0.062	1750
					12.5 x 16	0.110	1430			
180	187	10 x 16	0.076	1200	10 x 25	0.069	1620			
220	227				12.5 x 20	0.062	1750	12.5 x 25	0.047	2210
		10 x 20	0.056	1570				12.5 x 30	0.042	2400
270	277	12.5 x 16	0.072	1570	12.5 x 25	0.047	2210	16 x 20	0.048	1950
					12.5 x 30	0.042	2400			
330	337	10 x 25	0.046	1990	16 x 20	0.048	1950	12.5 x 35	0.036	2600
390	397	12.5 x 20	0.041	1990	12.5 x 35	0.036	2600	12.5 x 40	0.032	2860
								16 x 25	0.038	2430
								18 x 20	0.045	2270
470	477	12.5 x 25	0.031	2460	12.5 x 40	0.032	2860	16 x 31.5	0.032	2640
					16 x 25	0.038	2430			
					18 x 20	0.045	2270	18 x 25	0.036	2500
560	567	12.5 x 30	0.028	2760				16 x 35.5	0.029	2860
		16 x 20	0.032	2380	16 x 31.5	0.032	2640	18 x 31.5	0.030	2860
680	687	12.5 x 35	0.024	3040	16 x 35.5	0.029	2860	16 x 40	0.027	3510
					18 x 25	0.036	2500	18 x 35.5	0.027	3510
820	827	16 x 25	0.025	2890	16 x 40	0.027	3510	18 x 40	0.026	3860
					18 x 31.5	0.030	2860			
1000	108				18 x 35.5	0.027	3510			
1200	128				18 x 40	0.026	3860			

Maximum Allowable Ripple Current (mA_{RMS}) at 105°C 100kHz

Case Size ΦD x L (mm)

Maximum Impedance (Ω) at 20°C 100kHz

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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		SAMXON PRODUCT LINE		SLEEVE MATERIAL	
Series	Cap (uF)	Code	Tol. (%)	Code	Vol. (W.V.)	Code	Case Size		Feature		Code	SAMXON Product Line						
EKF	0.1	104	±5	J	2	0D	Diameter(Φ)		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).	Sleeve Material					Code	
EKS			2.5	0E	3		B											
EGS			4	0G	3.5		1											
EKM	0.22	224	±10	K	4	0G	4		Ammo Taping									
EKG			6.3	0J	5		C											
EOM			8	0K	6.3		E											
EGF	0.33	334	±15	L	10	1A	10		2.0mm Pitch	TT								
EGT			12.5	1B	12.5		I											
EGH			16	1C	13		J											
EGJ	0.47	474	±20	M	20	1D	13.5		2.5mm Pitch	TU								
EGK			25	1E	14		4											
EGM			30	1F	14.5		A											
ESF	1	105	±30	N	30	1I	16		3.5mm Pitch	TV								
ESH			32	1J	16.5		7											
ESK			35	1V	18		L											
ERS	2.2	225	-40	W	40	1G	18.5		5.0mm Pitch	TC								
ERG			42	1M	20		M											
ERH			44	1N	22		N											
ESK	3.3	335	-20	A	50	1H	25		Lead Cut & Form									
ESH			57	1L	30		P											
ESL			60	1M	34		W											
ERT	4.7	475	-20	X	63	1J	35		CB-Type	CB								
ERE			71	1S	40		R											
ERF			75	1T	42		4											
ERR	10	106	+10	C	80	1K	45		CE-Type	CE								
ERT			85	1R	51		S											
ERU			90	19	63.5		T											
ERD	22	226	-10	B	95	1V	76		HE-Type	HE								
ERE			100	2A	80		8											
ERF			120	2B	90		X											
ERH	33	336	+20	V	125	2B	100		KD-Type	KD								
ERI			150	2Z	4.5		45											
ERJ			160	2C	5		05											
ERK	47	476	-10	Q	180	2P	5.4		Snap-in	SW								
ERL			200	2D	7		07											
ERM			215	22	7.7		77											
ERN	100	107	+30	T	220	2N	10.2		Lug	SG								
ERO			230	23	11		11											
ERP			250	2E	11.5		1A											
ERS	220	227	-5	F	275	2T	12		Screw									
ERT			300	2I	12.5		1B											
ERU			310	2R	13		13											
ERV	330	337	+15	E	330	2U	13.5		O5									
ERW			350	2V	20		20											
ERX			360	2X	25		25											
ERY	470	477	-5	G	375	2Y	29.5		O6									
ERZ			400	2G	30		30											
ESA			420	2M	31.5		3A											
ESB	2200	228	+20	R	450	2W	35		T5									
ESC			500	2H	35.5		3E											
ESD			550	25	50		50											
ESE	22000	229	0	O	600	26	80		T6									
ESF			630	2J	100		1L											
ESG			630	2J	105		1K											
ESH	33000	339	+20	R	630	2J	110		D5									
ESI			630	2J	120		1N											
ESJ			630	2J	130		1P											
ESK	47000	479	0	I	630	2J	140		D6									
ESL			630	2J	150		1Q											
ESM			630	2J	155		1R											
ESN	100000	10T	+5	Z	630	2J	160		Screw									
ESO			630	2J	165		1F											
ESP			630	2J	170		1T											
ESQ	150000	15T	+15	H	630	2J	180		O5									
ESR			630	2J	180		1U											
ESS			630	2J	190		1V											
EST	220000	22T	0	D	630	2J	200		T5									
ESU			630	2J	215		2A											
ESV			630	2J	210		2M											
ESW	330000	33T	+5	D	630	2J	220		T6									
ESX			630	2J	220		2N											
ESY			630	2J	240		2Q											
ESZ	1000000	10M	+20	H	630	2J	250		Screw									
ESA			630	2J	260		2S											
ESB			630	2J	270		2T											
ESD	1500000	15M	0	I	630	2J	270		O5									
ESE			630	2J	270		2T											
ESF			630	2J	270		2T											
ESH	2200000	22M	+5	Z	630	2J	270		T5									
ESI			630	2J	270		2T											
ESJ			630	2J	270		2T											
ESK	3300000	33M	+20	H	630	2J	270		Screw									
ESL			630	2J	270		2T											
ESM			630	2J	270		2T											