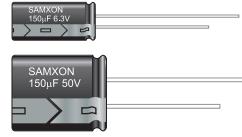


GK Series**SAMXON®****+105°C, High Ripple Current(高紋波), Lowest Impedance(更低阻抗品)****FEATURES**

1. Load life of 2000~5000 hours at 105°C.
2. Enabled high ripple current by a reduction of impedance at high frequency range.
3. 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 50V							
Nominal Capacitance Range	22 to 6800μF							
Capacitance Tolerance	±20% (120Hz, +20°C)							
Leakage Current	I = 0.01CV or 3(μA) after 2 minutes whichever is greater measured with rated working voltage at +20°C							
Dissipation Factor tan δ (120Hz, +20°C)	Working Voltage (V)	6.3	10	16	25	35	50	
	tan δ (max.)	0.22	0.19	0.16	0.14	0.12	0.10	
	When nominal capacitance is over 1000μF, tan δ shall be added 0.02 to the listed value increase with of every 1000μF							
Low Temperature Characteristics	Impedance ratio max. at 120Hz							
	Working Voltage (V)	6.3	10	16	25	35	50	
	Z-25°C / Z+20°C	2	2	2	2	2	2	
	Z-40°C / Z+20°C	3	3	3	3	3	3	
High Temperature Loading	Test conditions Duration : ϕD 5 ~ 6.3 8 ~ 10 12.5 ~ Load life 2000h 3000h 5000h				Post test requirements at +20°C Leakage current : ≤ Initial specified value Cap. change : within ±25% of initial measured value tan δ : ≤ 200% of initial specified value			
	Ambient temp. : +105°C Applied voltage : Rated DC working voltage with max. ripple current							
Shelf Life	Test conditions Duration : 1000 hours Ambient temp. : +105°C Applied voltage : (None)				Post test requirements at +20°C Leakage current : ≤ Initial specified value Cap. change : within ±25% of initial measured value tan δ : ≤ 200% of initial specified value			
Others	JIS C - 5141 EIJ RC - 2372							

CASE SIZE TABLE

Safety vent for $\phi \geq 6.3$		Unit : mm							
		ϕD	5	6.3	8(L < 20)	8(L ≥ 20)	10	12.5	16
F	2.0	2.5	3.5		5.0	5.0	7.5		
ϕd	0.5		0.6		0.6		0.8		
α	(L < 20) 1.5		(L ≥ 20) 2.0						
β	(D < 20) 0.5		(D ≥ 20) 1.0						

RIPPLE CURRENT MULTIPLIER

Temperature Coefficient					Frequency Coefficient					
Temperature(°C)	~ 55	60	70	85	Cap(μF)	Freq.(Hz)	120	1K	10K	100K
Factor	2.23	2.17	2.00	1.75	1.00	20 ~ 180	0.40	0.75	0.90	1.00
						220 ~ 560	0.50	0.85	0.94	1.00
						680 ~ 1800	0.60	0.87	0.95	1.00
						2200 ~ 3900	0.75	0.90	0.95	1.00
						4700~	0.85	0.95	0.98	1.00

+105°C, High Ripple Current(高紋波), Lowest Impedance(更低阻抗品)

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
56	566							5 x 11	0.300	250
100	107				5 x 11	0.300	250			
120	127							6.3 x 11	0.130	405
150	157	5 x 11	0.300	250						
180	187									
220	227	6.3 x 11	0.130	405	6.3 x 11	0.130	405	8 x 12	0.072	760
330	337	6.3 x 11	0.130	405	8 x 12	0.072	760	8 x 12	0.072	760
470	477	8 x 12	0.072	760	8 x 12	0.072	760	8 x 16	0.056	995
560	567	8 x 12	0.072	760				10 x 12.5	0.053	1030
680	687				8 x 16	0.056	995	8 x 20	0.041	1250
820	827	8 x 16	0.056	995	10 x 12.5	0.053	1030	10 x 16	0.038	1430
1000	108	10 x 12.5	0.053	1030	8 x 20	0.041	1250			
					10 x 16	0.038	1430	10 x 20	0.023	1820
1200	128	8 x 20	0.041	1250						
		10 x 16	0.038	1430	10 x 20	0.023	1820	10 x 25	0.022	2150
1500	158	10 x 20	0.023	1820	10 x 25	0.022	2150	12.5 x 20	0.021	2360
2200	228	10 x 25	0.022	2150	12.5 x 20	0.021	2360	12.5 x 25	0.018	2770
2700	278							12.5 x 30	0.016	3290
								16 x 20	0.018	3140
3300	338	12.5 x 20	0.021	2360	12.5 x 25	0.018	2770	12.5 x 35	0.015	3400
3900	398	12.5 x 25	0.018	2770	12.5 x 30	0.016	3290			
					16 x 20	0.018	3140	16 x 25	0.016	3460
4700	478	12.5 x 30	0.016	3290	12.5 x 35	0.015	3400			
5600	568	12.5 x 35	0.015	3400						
		16 x 20	0.018	3140	16 x 25	0.016	3460			
6800	688	16 x 25	0.016	3460						

Maximum Allowable Ripple Current (mA rms) at 105°C 100KHz

Case Size φD x L(mm)

Maximum Impedance (Ω) at 20°C 100KHz

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
22	226							5 x 11	0.340	238
33	336				5 x 11	0.300	250	6.3 x 11	0.140	385
47	476	5 x 11	0.300	250	6.3 x 11	0.130	405	6.3 x 11	0.140	385
56	566				6.3 x 11	0.130	405	6.3 x 11	0.140	385
100	107	6.3 x 11	0.130	405	8 x 12	0.072	760	8 x 12	0.074	724
120	127							8 x 16	0.061	950
150	157				8 x 12	0.072	760	10 x 12.5	0.061	979
180	187							8 x 20	0.046	1190
220	227	8 x 12	0.072	760	8 x 16	0.056	995	10 x 16	0.042	1370
270	227				10 x 12.5	0.053	1030			
330	337	8 x 16	0.056	995	8 x 20	0.041	1250	10 x 20	0.030	1580
		10 x 12.5	0.053	1030						
470	477	8 x 20	0.041	1250				10 x 25	0.028	1870
		10 x 16	0.038	1430	10 x 20	0.023	1820	12.5 x 20	0.027	2050
560	567				10 x 25	0.022	2150	12.5 x 25	0.023	2410
680	687	10 x 20	0.023	1820	12.5 x 20	0.021	2360	12.5 x 30	0.021	2860
820	827	10 x 25	0.022	2150				12.5 x 35	0.019	2960
								16 x 20	0.023	2730
1000	108	12.5 x 20	0.021	2360	12.5 x 25	0.018	2770	16 x 25	0.021	3010
1200	128				12.5 x 30	0.016	3290			
					16 x 20	0.018	3140			
1500	158	12.5 x 25	0.018	2770	12.5 x 35	0.015	3400			
1800	188	12.5 x 30	0.016	3290						
		16 x 20	0.018	3140	16 x 25	0.016	3460			
2200	228	12.5 x 35	0.015	3400						
		16 x 30	0.015	3633						
2700	278	16 x 25	0.016	3460						

Maximum Allowable Ripple Current (mA rms) at 105°C 100KHz

Case Size φD x L(mm)

Maximum Impedance (Ω) at 20°C 100KHz