

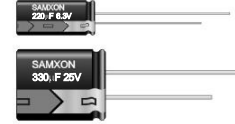
GK Series

SAMXON®

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

FEATURES

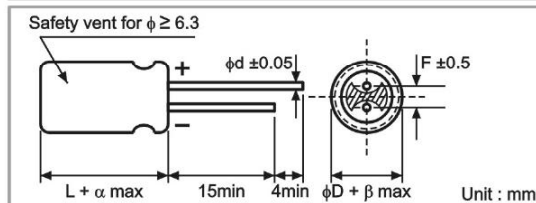
1. Load life of 2000~5000 hours at 105°C.
2. Enabled high ripple current by a reduction of impedance at high frequency range.
3. Lowest impedance for personal computer and storage equipment.



SPECIFICATIONS

Item	Performance Characteristics									
Operating Temperature Range	-40 to +105°C									
Rated Working Voltage Range	6.3 to 25V									
Nominal Capacitance Range	100 to 3900 μF									
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									
tan δ (120Hz, +20°C)	Working Voltage (V)	6.3	10	16	25					
	tan δ (max.)	0.22	0.19	0.16	0.14					
	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					
	Z-25°C / Z+20°C	2	2	2	2					
High Temperature Loading	Test conditions				Post test requirements at +20°C					
	Duration :	φD	6.3	8	10	12.5	Leakage current : ≤ Initial specified value			
		Load life	2000h	3000h	4000h	5000h	Cap. change : within ±25% of initial measured value			
		Ambient temp. :	+105°C					tan δ : ≤ 200% of initial specified value		
		Applied voltage :	Rated DC working voltage with max. ripple current							
Shelf Life	Test conditions				Post test requirements at +20°C					
	Duration	: 1000 hours				Leakage current : ≤ Initial specified value				
	Ambient temp.	: +105°C				Cap. change : within ±25% of initial measured value				
	Applied voltage	: (None)				tan δ : ≤ 200% of initial specified value				
Others	JIS C - 5101 (IEC 60384)									

CASE SIZE TABLE

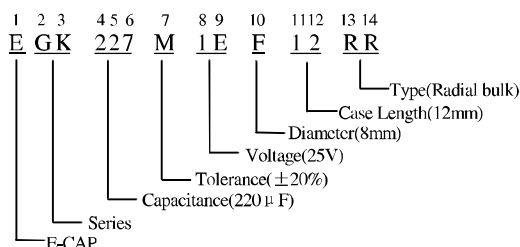


φD	6.3	8(L < 20) 8(L ≥ 20)	10	12.5		
F	2.5	3.5	5.0	5.0		
φd	0.5	0.6	0.6			
α	(L < 20) 1.5		(L ≥ 20) 2.0			
β	(D < 20) 0.5		(D ≥ 20) 1.0			

RIPPLE CURRENT MULTIPLIER

Frequency Coefficient					
Cap(μF)	Coefficient	120	1k	10k	100k
100 ~ 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

PART NUMBER SYSTEM(EXAMPLE:25V220μF)



GK

Miniature Aluminum Electrolytic Capacitors

+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
120	127							6.3 x 11	0.130	405
150	157									
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
								10 x 12.5	0.053	1030
560	567	8 x 12	0.072	760						
680	687				8 x 16	0.056	995	8 x 20	0.041	1250
					10 x 12.5	0.053	1030	10 x 16	0.038	1430
820	827	8 x 16	0.056	995						
1000	108	10 x 12.5	0.053	1030	8 x 20	0.041	1250	10 x 20	0.023	1820
					10 x 16	0.038	1430			
1200	128	8 x 20	0.041	1250	10 x 20	0.023	1820	10 x 25	0.022	2150
		10 x 16	0.038	1430						
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
3300	338	12.5 x 20	0.021	2360	12.5 x 25	0.018	2770			
3900	398	12.5 x 25	0.018	2770						

Maximum Allowable Ripple Current (mA rms) at 105°C **100kHz**
 Maximum Impedance (Ω) at 20°C **100kHz**

Case Size φD x L(mm)

Voltage (Code)		25V (1E)								
Cap.(μF)	Code	Case Size	Impedance	Ripple Current						
100	107	6.3 x 11	0.130	405						
220	227	8 x 12	0.072	760						
330	337	8 x 16	0.056	995						
		10 x 12.5	0.053	1030						
470	477	8 x 20	0.041	1250						
		10 x 16	0.038	1430						
680	687	10 x 20	0.023	1820						
820	827	10 x 25	0.022	2150						
1000	108	12.5 x 20	0.021	2360						
1500	158	12.5 x 25	0.018	2770						

Maximum Allowable Ripple Current (mA rms) at 105°C **100kHz**
 Maximum Impedance (Ω) at 20°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.