

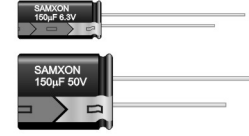
GT Series

SAMXON®

+105°C, High Ripple Current(高紋波), Long Life Assurance(長壽命), Low Impedance(低阻抗品)

FEATURES

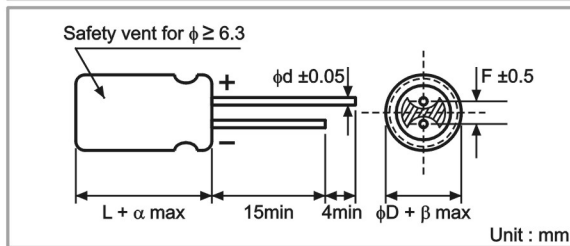
1. Low impedance for high frequency
2. Long life:4000~10000 hours at 105°C



SPECIFICATIONS

Item	Performance Characteristics										
Operating Temperature Range	-40 to +105°C										
Rated Working Voltage Range	6.3 to 100V										
Nominal Capacitance Range	15 to 18000µF										
Capacitance Tolerance	±20% (120Hz, +20°C)										
Leakage Current	I≤0.01CV or 3(µA) (after 2 minutes, whichever is greater) I=Leakage Current(µA) C=Nominal Capacitance(µF) V=Rated Voltage(V)										
Dissipation Factor tan δ (120Hz, +20°C)	Working Voltage (V)	6.3	10	16	25	35	50	63	100		
	tan δ (max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08		
	For capacitance value>1000 µF,add 0.02 per another 1000 µF										
Low Temperature Characteristics	Impedance ratio max. at 120Hz										
	Rated Voltage(V)	6.3	10	16	25	35	50	63	100		
	Z-25°C / Z+20°C	4	3	2	2	2	2	2	2		
	Z-40°C / Z+20°C	8	6	4	3	3	3	3	3		
High Temperature Loading	Test conditions										
	Duration :	φD	5 ~ 6.3	8~10	12.5 ~						Post test requirements at +20°C
		6.3~10WV	4000h	6000h	8000h						Leakage current : ≤ Initial specified value
		16~100WV	5000h	7000h	10000h						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										
	Duration	: 1000 hours								Post test requirements at +20°C	
	Ambient temp.	: +105°C								Same limits for high temperature loading	
	Applied voltage	: (None)									
Others	JIS C - 5101 (IEC 60384)										

CASE SIZE TABLE



φD	6.3	8(L<20)	8(L≥20)	10	12.5	16~18	
F	2.5	3.5		5.0	5.0	7.5	
φd	0.5			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	105	Cap(µF)	Freq.(Hz)	50	120	300	1K	10K ~
Factor	2.23	2.17	2.00	1.75	1.00		6.3 ~ 33	0.45	0.55	0.70	0.90	1.00
							39 ~ 330	0.60	0.70	0.85	0.95	1.00
							390 ~ 1000	0.65	0.75	0.90	0.98	1.00
							1200 ~ 18000	0.75	0.80	0.95	1.00	1.00

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## DIMENSIONS

Voltage (Code)		6.3V (0J)			10V (1A)			16V (1C)		
Cap.( $\mu$ F)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current
120	127							6.3 x 11	0.220	340
150	157									
220	227				6.3 x 11	0.220	340			
330	337	6.3 x 11	0.220	340				8 x 12	0.130	640
470	477				8 x 12	0.130	640	8 x 16	0.087	840
								10 x 12.5	0.080	865
680	687	8 x 12	0.130	640	8 x 16	0.087	840	8 x 20	0.069	1050
					10 x 12.5	0.080	865	10 x 16	0.060	1210
820	827	10 x 12.5	0.080	865						
1000	108	8 x 16	0.087	840	8 x 20	0.069	1050	10 x 20	0.046	1400
					10 x 16	0.060	1210			
1200	128	8 x 20	0.069	1050	10 x 20	0.046	1400	10 x 25	0.042	1650
		10 x 16	0.060	1210						
1500	158	10 x 20	0.046	1400	10 x 25	0.042	1650	10 x 30	0.031	1910
								12.5 x 20	0.035	1900
2200	228	10 x 25	0.042	1650	10 x 30	0.031	1910	12.5 x 25	0.027	2230
					12.5 x 20	0.035	1900			
2700	278	10 x 30	0.031	1910				12.5 x 30	0.024	2650
								16 x 20	0.027	2530
3300	338	12.5 x 20	0.035	1900	12.5 x 25	0.027	2230	12.5 x 35	0.020	2880
					12.5 x 30	0.024	2650	12.5 x 40	0.017	3350
3900	398	12.5 x 25	0.027	2230	16 x 20	0.027	2530	16 x 25	0.021	2930
								16 x 20	0.026	2860
4700	478	12.5 x 30	0.024	2650	12.5 x 35	0.020	2880	16 x 30	0.017	3450
								18 x 25	0.019	3140
5600	568	12.5 x 35	0.020	2880	12.5 x 40	0.017	3350	16 x 35	0.015	3610
		16 x 20	0.027	2530	16 x 25	0.021	2930	18 x 30	0.015	4170
					18 x 20	0.026	2860			
6800	688	12.5 x 40	0.017	3350	16 x 30	0.017	3450	16 x 40	0.013	4080
		16 x 25	0.021	2930	18 x 25	0.019	3140			
		18 x 20	0.026	2860						
8200	828	16 x 30	0.017	3450	16 x 35	0.015	3610	18 x 35	0.014	4220
					18 x 30	0.015	4170			
10000	109	16 x 35	0.015	3610	16 x 40	0.013	4080	18 x 40	0.012	4280
		18 x 25	0.019	3140	18 x 35	0.014	4220			
12000	129	16 x 40	0.013	4080	18 x 40	0.012	4280			
		18 x 30	0.015	4170						
15000	159	18 x 35	0.014	4220						
18000	189	18 x 40	0.012	4280						

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

Case Size  $\phi$ D x L(mm)Maximum Impedance ( $\Omega$ ) at 20°C 100KHz

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DIMENSIONS

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 11	0.220	340	6.3 x 11	0.300	295
100	107	6.3 x 11	0.220	340				8 x 12	0.170	555
120	127							8 x 15	0.120	730
150	157				8 x 12	0.130	640	10 x 12.5	0.120	760
220	227	8 x 12	0.130	640	8 x 16	0.087	840	10 x 16	0.084	1050
					10 x 12.5	0.080	865			
330	337	8 x 16	0.087	840	10 x 16	0.060	1210	10 x 25	0.055	1440
		10 x 12.5	0.080	865						
470	477	8 x 20	0.069	1050	10 x 20	0.046	1400	10 x 30	0.043	1690
		10 x 16	0.060	1210				12.5 x 20	0.045	1660
560	567				10 x 25	0.042	1650	12.5 x 25	0.034	1950
680	687	10 x 20	0.046	1400	10 x 30	0.031	1910	12.5 x 30	0.030	2310
					12.5 x 20	0.035	1900			
820	827	10 x 25	0.042	1650				12.5 x 35	0.025	2510
								16 x 20	0.034	2210
1000	108	10 x 30	0.031	1910	12.5 x 25	0.027	2230	12.5 x 40	0.021	2920
		12.5 x 20	0.035	1900				16 x 25	0.025	2555
								18 x 20	0.036	2490
1200	128				12.5 x 30	0.024	2650	16 x 30	0.022	3010
					16 x 20	0.027	2530	18 x 25	0.026	2740
1500	158	12.5 x 25	0.027	2230	12.5 x 35	0.020	2880	16 x 35	0.019	3150
		12.5 x 30	0.024	2650	12.5 x 40	0.017	3350	16 x 40	0.016	3710
1800	188	16 x 20	0.027	2530	16 x 25	0.021	2930	18 x 30	0.021	3635
					18 x 20	0.026	2860			
2200	228	12.5 x 35	0.020	2880	16 x 30	0.017	3450	18 x 35	0.017	3680
		18 x 20	0.026	2860	18 x 25	0.019	3140			
2700	278	12.5 x 40	0.017	3350	16 x 35	0.015	3610	18 x 40	0.014	3800
		16 x 25	0.021	2930	18 x 30	0.015	4170			
3300	338	16 x 30	0.017	3450	16 x 40	0.013	4080			
		18 x 25	0.019	3140	18 x 35	0.014	4220			
3900	398	16 x 35	0.015	3610	18 x 40	0.012	4280			
		18 x 30	0.015	4170						
4700	478	16 x 40	0.013	4080						
		18 x 35	0.014	4220						
5600	568	18 x 40	0.012	4280						

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

Case Size φD x L(mm)

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## DIMENSIONS

Voltage (Code)		63V (1J)			100V (2A)					
Cap.(μF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current			
15	156				6.3 x 11	1.200	115			
27	276				8 x 12	0.630	232			
33	336	6.3 x 11	1.200	115						
39	396				8 x 16	0.450	300			
47	476				10 x 12.5	0.430	288			
56	566	8 x 12	0.630	232	8 x 20	0.330	362			
68	686				10 x 16	0.310	357			
82	826	8 x 16	0.450	300	10 x 20	0.210	466			
		10 x 12.5	0.430	288						
100	107				10 x 25	0.200	531			
120	127	8 x 20	0.330	362	10 x 30	0.150	663			
		10 x 16	0.310	357	12.5 x 20	0.160	690			
180	187	10 x 20	0.210	466	12.5 x 25	0.120	784			
220	227	10 x 25	0.200	531	12.5 x 30	0.100	905			
					16 x 20	0.091	1040			
270	277	10 x 30	0.150	663	12.5 x 35	0.083	1050			
		12.5 x 20	0.160	690	16 x 25	0.073	1250			
330	337	12.5 x 25	0.120	784	12.5 x 40	0.071	1180			
					18 x 20	0.080	1240			
390	397				16 x 30	0.054	1570			
					18 x 25	0.057	1490			
470	477	12.5 x 30	0.100	905	16 x 35	0.045	1790			
		16 x 20	0.091	1040	18 x 30	0.047	1630			
560	567	12.5 x 35	0.083	1050	16 x 40	0.040	2020			
		16 x 25	0.073	1250						
680	687	12.5 x 40	0.071	1180	18 x 35	0.040	1790			
		18 x 20	0.080	1240						
820	827	16 x 30	0.054	1570	18 x 40	0.360	2330			
		18 x 25	0.057	1490						
1000	108	16 x 35	0.045	1790						
		18 x 30	0.047	1630						
1200	128	16 x 40	0.040	2020						
		18 x 35	0.040	1790						
1500	158	18 x 40	0.036	2330						

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

Case Size φD x L(mm)

GT

Miniature Aluminum Electrolytic Capacitors