

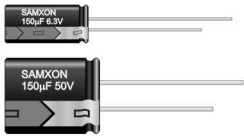
GT Series

SAMXON®

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

FEATURES

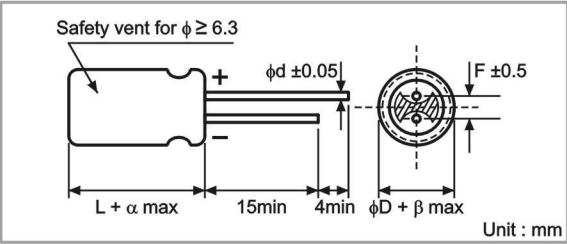
- 1. Low impedance for high frequency
- 2. Long life:4000~10000 hours at 105°C



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				Post test requirements at +20°C				
	Duration :	φD	5 ~ 6.3	8~10	12.5 ~	Leakage current : ≤ Initial specified value			
		6.3~10WV	4000h	6000h	8000h	Cap. change : within ±25% of initial measured value			
		16~100WV	5000h	7000h	10000h	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				Post test requirements at +20°C				
	Duration : 1000 hours				Same limits for high temperature loading				
	Ambient temp. : +105°C								
	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.(μF)	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

Maximum Impedance (Ω) at 20°C 100KHz

Case Size φD x L(mm)

GT

Miniature Aluminum Electrolytic Capacitors

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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
1800	188	12.5 x 30	0.024	2650	12.5 x 40	0.017	3350	16 x 40	0.016	3710
		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

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