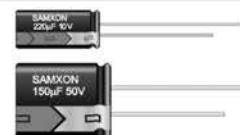


+105°C, Long Life Assurance(長壽命), Low Impedance(低阻抗品)

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



Item	Performance Characteristics																											
Operating Temperature Range	-40 to +105℃																											
Rated Working Voltage Range	6.3 to 100V																											
Nominal Capacitance Range	0.47 to 15000μF																											
Capacitance Tolerance	±20% (120Hz, +20℃)																											
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)																											
tan δ (120Hz, +20℃)	<table border="1"> <thead> <tr> <th>Working Voltage (V)</th><th>6.3</th><th>10</th><th>16</th><th>25</th><th>35</th><th>50</th><th>63</th><th>100</th></tr> </thead> <tbody> <tr> <td>tan δ (Max.)</td><td>0.22</td><td>0.19</td><td>0.16</td><td>0.14</td><td>0.12</td><td>0.10</td><td>0.09</td><td>0.08</td></tr> </tbody> </table> For capacitance value>1000μF, add 0.02 per another 1000μF	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									
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																				
Low Temperature Characteristics	Impedance ratio max. at 120Hz <table border="1"> <thead> <tr> <th>Rated Voltage (V)</th><th>6.3</th><th>10</th><th>16</th><th>25</th><th>35</th><th>50</th><th>63</th><th>100</th></tr> </thead> <tbody> <tr> <td>Z-25℃ / Z+20℃</td><td>4</td><td>3</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td></tr> <tr> <td>Z-40℃ / Z+20℃</td><td>8</td><td>6</td><td>4</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td></tr> </tbody> </table>	Rated Voltage (V)	6.3	10	16	25	35	50	63	100	Z-25℃ / Z+20℃	4	3	2	2	2	2	2	2	Z-40℃ / Z+20℃	8	6	4	3	3	3	3	3
Rated Voltage (V)	6.3	10	16	25	35	50	63	100																				
Z-25℃ / Z+20℃	4	3	2	2	2	2	2	2																				
Z-40℃ / Z+20℃	8	6	4	3	3	3	3	3																				
High Temperature Loading	Test conditions Duration: <table border="1"> <thead> <tr> <th>φD</th><th>5~6.3</th><th>8~10</th><th>12.5~</th></tr> </thead> <tbody> <tr> <td>6.3~10WV</td><td>4000h</td><td>6000h</td><td>8000h</td></tr> <tr> <td>16~100WV</td><td>5000h</td><td>7000h</td><td>10000h</td></tr> </tbody> </table> Post test requirements at +20℃ Leakage current : ≤Initial specified value Cap. change : within ±25% of initial measured value tan δ : ≤200% of initial specified value Ambient temp. : +105℃ Applied voltage : Rated DC working voltage with rated ripple current	φD	5~6.3	8~10	12.5~	6.3~10WV	4000h	6000h	8000h	16~100WV	5000h	7000h	10000h															
φD	5~6.3	8~10	12.5~																									
6.3~10WV	4000h	6000h	8000h																									
16~100WV	5000h	7000h	10000h																									
Shelf Life	Test conditions Duration : 1000 hours Ambient temp. : +105℃ Applied voltage : (None) Post test requirements at +20℃ Leakage current : ≤Initial specified value Cap.change : within±25% of initial measured value tan δ : ≤200% of initial specified value																											
Others	JIS C - 5101 (IEC 60384)																											

ϕD	5	6.3	8 ($L < 20$)	8 ($L \geq 20$)	10	12.5	16~18
F	2.0	2.5	3.5		5.0	5.0	7.5
ϕd	0.5			0.6			
α	(L < 20) 1.5			(L ≥ 20) 2.0			
β	(D < 20) 0.5			(D ≥ 20) 1.0			

Unit : mm

Frequency Coefficient						
Cap(μF)	Coefficient	Freq.(Hz)	120	1k	10k	100k
	0.47~10		0.42	0.60	0.80	1.00
	22~33		0.55	0.75	0.90	1.00
	47~330		0.70	0.85	0.95	1.00
	470~1000		0.75	0.90	0.98	1.00
	2200~15000		0.80	0.95	1.00	1.00

1 2 3 4 5 6 7 8 9 10 11 12 13 14

E GY 108 M 1A G 16 RR

Type (Radial Bulk)
Case Length (16mm)
Diameter (10mm)
Voltage (10V)
Tolerance (± 20%)
Capacitance (1000 µF)
Series
E-CAP

+105°C, Long Life Assurance(長壽命), Low Impedance(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
47	476							5 x 11	0.90	150
100	107	5 x 11	0.90	150	5 x 11	0.90	150	6.3 x 11	0.40	250
220	227	6.3 x 11	0.40	250	6.3 x 11	0.40	250	8 x 12	0.25	400
330	337	6.3 x 11	0.40	250	8 x 12	0.25	400	8 x 12	0.25	400
470	477	8 x 12	0.25	400	8 x 12	0.25	400	10 x 12.5	0.16	580
1000	108	10 x 12.5	0.16	580	10 x 16	0.12	770	10 x 20	0.078	1050
2200	228	12.5 x 20	0.062	1300	12.5 x 20	0.062	1300	12.5 x 25	0.048	1650
3300	338	12.5 x 20	0.062	1300	12.5 x 25	0.048	1650	16 x 25	0.034	1850
4700	478	16 x 25	0.034	1850	16 x 25	0.034	1850	16 x 30	0.029	2000
6800	688	16 x 25	0.034	1850	16 x 30	0.029	2000	18 x 35	0.025	2200
10000	109	16 x 30	0.029	2000	18 x 35	0.025	2200			
15000	159	18 x 35	0.025	2200						

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

Case Size ΦDxL(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
0.47	474							5 x 11	5.5	17
1	105							5 x 11	4.0	30
2.2	225							5 x 11	2.5	43
3.3	335							5 x 11	2.2	53
4.7	475							5 x 11	1.9	88
10	106							5 x 11	1.5	100
22	226							5 x 11	0.90	150
33	336	5 x 11	0.90	150	5 x 11	0.90	150	6.3 x 11	0.400	250
47	476	5 x 11	0.90	150	6.3 x 11	0.40	250	6.3 x 11	0.400	250
100	107	6.3 x 11	0.40	250	8 x 12	0.25	400	8 x 12	0.250	400
220	227	8 x 12	0.25	400	10 x 12.5	0.16	580	10 x 16	0.120	770
330	337	10 x 12.5	0.16	580	10 x 16	0.12	770	10 x 20	0.078	1050
470	477	10 x 16	0.12	770	10 x 20	0.078	1050	12.5 x 20	0.062	1300
1000	108	12.5 x 20	0.062	1300	12.5 x 25	0.048	1650	16 x 25	0.034	1850
2200	228	16 x 25	0.034	1850	16 x 30	0.029	2000	18 x 35	0.025	2200
3300	338	16 x 30	0.029	2000	18 x 35	0.025	2200			
4700	478	18 x 35	0.025	2200						

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

Case Size ΦDxL(mm)

Maximum Impedance (Ω) at 20°C 100kHz

Voltage (Code)		63V (1J)			100V (2A)					
Cap.(μF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current			
22	226	6.3 x 11	1.3	140	8 x 12	0.63	160			
33	336	6.3 x 11	1.2	140	10 x 12.5	0.43	230			
47	476	8 x 12	0.63	210	10 x 16	0.31	290			
100	107	10 x 12.5	0.43	300	12.5 x 20	0.16	430			
220	227	10 x 20	0.21	520	16 x 25	0.073	900			
330	337	12.5 x 20	0.16	660	16 x 25	0.073	900			
470	477	12.5 x 25	0.12	750						
1000	108	16 x 30	0.054	1390						

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

Case Size ΦDxL(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.