

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

FEATURES

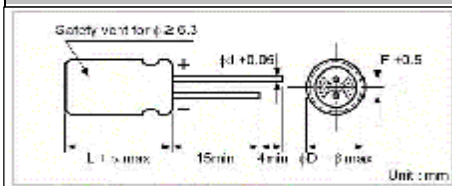
1. Load life of 6000~10000 hours at 105°C.
2. Enabled high ripple current by a reduction of impedance at high frequency range.
3. Lowest impedance for personal computer and storage equipment.



SPECIFICATIONS

Item	Performance Characteristics																																						
Operating Temperature Range	-40 to +105°C																																						
Rated Working Voltage Range	6.3 to 100V																																						
Nominal Capacitance Range	33 to 8200µF																																						
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																																						
tanδ (120Hz, +20°C)	Working Voltage(V)	6.3	10	16	25	35	50																																
	tanδ (max.)	0.22	0.19	0.16	0.14	0.12	0.10																																
	For capacitance value >1000µF, add 0.02 per another 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																																
High Temperature Loading	Test conditions																																						
	Duration:	<table border="1"> <thead> <tr> <th rowspan="2">铝壳尺寸</th> <th colspan="3">时间 (Hrs)</th> </tr> <tr> <th>6.3V.DC</th> <th>10~50V.DC</th> <th>63~100V.DC</th> </tr> </thead> <tbody> <tr> <td>ΦD ≤ 6.3</td> <td>6000</td> <td>7000</td> <td>6000</td> </tr> <tr> <td>8x12</td> <td>8000</td> <td>9000</td> <td>8000</td> </tr> <tr> <td>10x12.5</td> <td>9000</td> <td>9000</td> <td>9000</td> </tr> <tr> <td>8x16, 8x20</td> <td>9000</td> <td>10000</td> <td>9000</td> </tr> <tr> <td>10x16, 10x20, 10x25</td> <td colspan="3">10000</td> </tr> <tr> <td>ΦD ≥ 12.5</td> <td colspan="3"></td> </tr> </tbody> </table>			铝壳尺寸	时间 (Hrs)			6.3V.DC	10~50V.DC	63~100V.DC	ΦD ≤ 6.3	6000	7000	6000	8x12	8000	9000	8000	10x12.5	9000	9000	9000	8x16, 8x20	9000	10000	9000	10x16, 10x20, 10x25	10000			ΦD ≥ 12.5				Post test requirements at +20°C Leakage current: ≤ Initial specified value Cap.change : within ±25% of initial measured value (6.3, 10V :within ≤±30%) tanδ : ≤ 200% of initial specified value			
	铝壳尺寸	时间 (Hrs)																																					
		6.3V.DC	10~50V.DC	63~100V.DC																																			
ΦD ≤ 6.3	6000	7000	6000																																				
8x12	8000	9000	8000																																				
10x12.5	9000	9000	9000																																				
8x16, 8x20	9000	10000	9000																																				
10x16, 10x20, 10x25	10000																																						
ΦD ≥ 12.5																																							
Ambient temp. : +105°C																																							
Applied voltage : Rated DC working voltage with rated ripple current																																							
Shelf Life	Test conditions																																						
	Duration : 1000 hours				Post test requirements at +20°C																																		
	Ambient temp. : +105°C				Leakage current	: ≤ Initial specified value																																	
	Applied voltage : (None)				Cap.change	: within ±25% of initial measured value (6.3, 10V :within ≤±30%)																																	
Others	JIS C - 5101 (IEC 60384)																																						
	tanδ : ≤ 200% of initial specified value																																						

CASE SIZE TABLE



ΦD	6.3	8(L<20)		10	12.5	16
F	2.5	3.5	8(L≥20)	5.0	5.0	7.5
Φd	0.5			0.8		
α)1.5 (L≥20)2.0		0.6			
β)0.5 (D≥20)1.0					

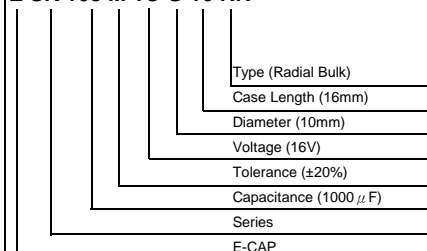
RIPPLE CURRENT MULTIPLIER

Frequency Coefficient					
Cap(µF)	Freq.(Hz)	120	1k	10k	100k≤
56~270µF		0.5	0.73	0.92	1
330~680µF		0.55	0.77	0.94	1
820~1800µF		0.6	0.8	0.96	1
2200~8200µF		0.7	0.85	0.98	1

PART NUMBER SYSTEM (EXAMPLE: 16V 1000µF)

1 23 456 7 89 10 1112 1314

E SK 108 M 1C G 16 RR



+105°C, High Ripple Current(高纹波), Lowest Impedance(更低阻抗品), Long Life(长寿命)

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
270	277							6.3x12	0.170	700
330	337							6.3x12	0.170	700
470	477	6.3x12	0.170	540				8x12	0.075	1200
560	567				8x12	0.075	1200	8x16	0.059	1600
680	687				8x16	0.059	1600	10x12.5	0.053	1700
820	827	8x12	0.075	945	10x12.5	0.053	1700	8x20	0.041	1960
1000	108	8x16	0.059	1250	8x20	0.041	1960	10x16	0.038	2000
1200	128	10x12.5	0.053	1330	10x16	0.038	2000			
1500	158	8x20	0.041	1500				10x20	0.028	2500
1800	188	10x16	0.038	1760	10x20	0.028	2500	10x25	0.024	2900
2200	228				10x25	0.024	2900	12.5x20	0.025	2600
2700	278	10x20	0.028	1960	12.5x20	0.025	2600	12.5x25	0.019	3200
3300	338	10x25	0.024	2250	12.5x25	0.019	3200	12.5x30	0.018	3660
3900	398	12.5x20	0.025	2480				16x20	0.021	3330
4700	478	12.5x25	0.019	2900	12.5x30	0.018	3660	16x25	0.017	3810
					16x20	0.021	3330			
					12.5x35	0.016	4120			
					16x25	0.017	3810			
6800	688	16x20	0.021	3250						
		12.5x35	0.016	3570						
8200	828	16x25	0.017	3630						

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
27	276									
476	476									
56	566							6.3x12	0.220	500
686	686									
100	107				6.3x12	0.17	700	8x12	0.120	950
120	127							8x16	0.082	1230
150	157	6.3x12	0.170	700				10x12.5	0.073	1280
180	187				8x12	0.075	1200	8x20	0.058	1580
220	227				8x16	0.059	1600	10x16	0.053	1650
270	277				10x12.5	0.053	1700			
330	337	8x12	0.075	1200	8x20	0.041	1960	10x20	0.038	2000
390	397	8x16	0.059	1600	10x16	0.038	2000	10x25	0.032	2420
470	477	10x12.5	0.053	1700				12.5x20	0.032	2300
560	567	8x20	0.041	1960	10x20	0.028	2500			
680	687	10x16	0.038	2000	10x25	0.024	2900	12.5x25	0.025	2800
					12.5x20	0.025	2600	12.5x30	0.023	3370
820	827							16x20	0.026	3070
								12.5x35	0.021	3810
1000	108	10x20	0.028	2500				16x25	0.022	3510
1200	128	10x25	0.024	2900	12.5x25	0.019	3200			
1500	158	12.5x20	0.025	2600	12.5x30	0.018	3660			
					16x20	0.021	3330			
1800	188	12.5x25	0.019	3200	12.5x35	0.016	4120			
					16x25	0.017	3810			
2200	228	16x20	0.021	3330						
		12.5x30	0.018	3660						
2700	278	12.5x35	0.016	4120						
3300	338	16x25	0.017	3810						

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

Case Size ΦDxL(mm)

Maximum Impedance(Ω) at 20°C 100kHz

Voltage(Code)		63V (1E)			80V (1V)			100V (1H)		
Cap.(μF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current
33	336							8* 11.5	0.29	620
47	476				8* 11.5	0.29	620	8* 1.6	0.2	
56	566				8* 1.6	0.2	780	10* 12.5	0.17	780
68	686				10* 12.5	0.17	780	8* 20	0.16	
82	566	8* 11.5	0.18	720	8* 2.0	0.16	1040	10* 1.6	0.11	1040
107	107	8* 1.6	0.13	990	10* 1.6	0.11	1040	10* 2.0	0.084	
120	127	10* 12.5	0.11	990				12.5* 1.6	0.11	1430
					10* 2.0	0.084	1430	10* 2.5	0.069	
150	157	8* 2.0	0.096	1200	12.5* 1.6	0.11	1430	12.5* 2.0	0.062	1750
180	187	10* 1.6	0.076	1230	10* 2.5	0.069	1620			
220	227				12.5* 2.0	0.062	1750	12.5* 2.5	0.047	2210
270	277	10* 2.0	0.056	1570	12.5* 2.5	0.047	2210	12.5* 3.0	0.042	2400
		12.5* 1.6	0.072	1570				16* 2.0	0.048	1950
330	337	10* 2.5	0.046	1990	12.5* 3.0	0.042	2400	12.5* 3.5	0.036	2600
					16* 2.0	0.048	1950			
390	397	12.5* 2.0	0.041	1990	12.5* 3.5	0.036	2600	12.5* 4.0	0.032	2860
								16* 2.5	0.038	2430
								18* 2.0	0.045	2270
470	477	12.5* 2.5	0.031	2460	12.5* 4.0	0.032	2860	16* 31.5	0.032	2640
					16* 2.5	0.038	2430			
					18* 2.0	0.045	2270	18* 2.5	0.036	2500
560	567	12.5* 3.0	0.028	2760	16* 31.5	0.032	2640	16* 35.5	0.029	2860
		16* 2.0	0.032	2380				18* 31.5	0.03	2860
680	687	12.5* 3.5	0.024	3040	16* 35.5	0.029	2860	16* 4.0	0.027	3510
					18* 2.5	0.036	2500	18* 35.5	0.027	3510
820	827	16* 2.5	0.025	2890	16* 4.0	0.027	3510	18* 4.0	0.026	3860
					18* 31.5	0.03	2860			
1000	108				18* 35.5	0.027	3510			
1200	128				18* 4.0	0.026	3860			

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

Case Size ΦDxL(mm)

Maximum Impedance(Ω) at 20°C 100kHz