

# SJ [ Low Impedance and High Ripple Series ]

Features: 105°C 1000~5000hours, Low impedance and high ripple

Recommended Applications: AV(TV, Video, Audio), Monitor/Computer, OA/HA/

Commuciation, Converter/Inverter, Adapter, SMPS

## Miniature Aluminum Electrolytic Capacitors

### ELECTRICAL CHARACTERISTICS

Operating Temperature : -40° ~ +105°C

Working Voltage : 6.3 ~ 100V

Rate Capacitance Range : 5.6 ~ 6800μF

Capacitance Tolerance : -20 ~ +20%

DC Leakage Current (μA) : I = 0.01 CV(μA) or 3μA Whichever is greater.

Dissipation Factor : at 100KHz, 105°C

WV (V) :	6.3	10	16	25	35	50	63	100
D.F (%) :	22	19	16	14	12	10	9	8

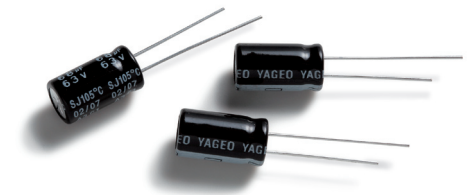
For capacitor whose capacitance exceeds 1000μF. The value of D.F(%) is increased by 2% for every addition of 1000μF.

WV (V) :	6.3	10	16	25	35	50	63	100
Impedance : Z - 25°C / Z + 20°C	2	2	2	2	2	2	2	2
Z - 40°C / Z + 20°C	3	3	3	3	3	3	3	3

After applying rated voltage with max ripple current for 1000~5000 hours at 105°C, the capacitor shall meet the following requirement.

- (a) Capacitance Change: Within ±25% of the initial value
- (b) Dissipation Factor: Not more than 200% of the specified value
- (c) Leakage Current: Not more than the specified value

After placed at 105°C without voltage applied for 1000 hours(500 hours for L=7), the capacitor shall meet the same requirement as Endurance.



### DESCRIPTION

Features: 105°C 1000~5000hours, Low impedance and high ripple

Recommended Applications: AV(TV, Video, Audio), Monitor/Computer, OA/HA/ Commuciation, Converter/Inverter, Adapter, SMPS

### Multiplier for Ripple Current

Frequency coefficient

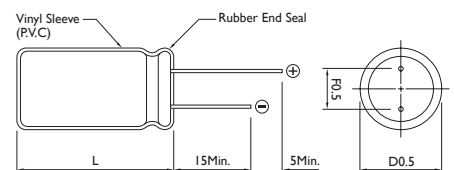
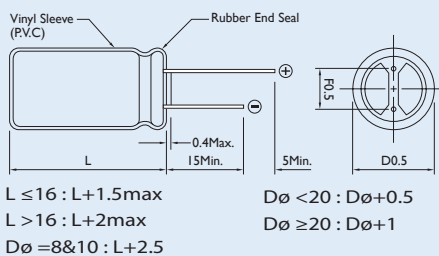
Frequency(Hz)	50	120	1K	10K	100K
5.6~390μF	0.60	0.70	0.85	0.95	1.00
470~1000μF	0.65	0.75	0.90	0.98	1.00
1200~6800μF	0.75	0.80	0.95	1.00	1.00

### DIAGRAM OF DIMENSIONS

Dimensions : mm

Dø	F	dø
4.0	1.5	0.45
5.0	2.0	0.5
6.3	2.5	
8.0	3.5	
10.0	5.0	0.6
12.0		
13.0		
16.0	7.5	0.8
18.0		

Rubber Stand-off





## CASE SIZE & PERMISSIBLE RIPPLE CURRENT OF STANDARD PRODUCTS

CAP. (μF)	RATED VOLTAGE WV		RATED VOLTAGE WV		RATED VOLTAGE WV		RATED VOLTAGE WV		RATED VOLTAGE WV	
	6.3 SIZE	RIPPLE	10 SIZE	RIPPLE	16 SIZE	RIPPLE	25 SIZE	RIPPLE	35 SIZE	RIPPLE
10									4X7	130
15							4X7	130	5X7	190
18					4X7	130	5X7	170	5X7	210
27			4X7	130	5X7	190	5X7	210	5X11	230
33			5X7	160	5X7	210	5X11	220	5X11	250
39	4X7	130	5X7	175	5X11	220	5X11	230	6X7	300
47	5X7	175	5X7	190	5X11	230	5X11	250	6X11	380
									8X7	350
56	5X7	190	5X7	210	5X11	250	6X7	300	6X11	410
									8X7	380
68	5X7	210	5X11	210	6X7	300	6X11	340	8X11	510
							8X7	310		
100	5X11	200	5X11	250	6X11	370	6X11	410	8X11	620
	6X7	240			8X7	350	8X7	380		
120	5X11	220	6X7	300	6X11	410	8X11	560	8X11	680
	6X7	270			8X7	380				
150	5X11	250	8X7	350	8X11	510	8X11	630	8X11	760
	6X7	300								
180	8X7	340	8X7	380	8X11	560	8X11	690	8X15	910
									10X12	930
220	8X7	380	6X11	410	8X11	620	8X11	760	10X12	1030
270	6X11	370	8X11	580	8X11	690	8X15	900	8X20	1250
							10X12	930		
330	6X11	410	8X11	640	8X11	760	10X12	1030	10X15	1430
470	8X11	582	8X11	760	8X15	1000	8X20	1250	10X19	1820
					10X12	1030	10X15	1430		
560	8X11	760	8X15	910					10X25	2150
			10X12	940						
680	8X15	900	8X15	995	10X15	1430	10X19	1820	13X20	2360
			10X12	1030		8X20	1250			
820	8X15	995					10X25	2150	13X25	2510
1000	10X12	1030	8X20	1250	10X19	1820	13X20	2360	13X25	2770
			10X15	1430						
1200	10X15	1430	10X19	1820	10X25	2150	13X25	2510	13X30	3290
	8X20	1250							16X20	3140
1500	10X19	1820	10X25	2150	13X20	2360	13X25	2770	13X35	3400
1800	10X12	1940	13X20	2230	13X25	2510	13X30	3290	16X25	3460
							16X20	3140		
2200	10X25	2150	10X22	2010	13X25	2770	13X35	3400		
2700	10X25	2200			13X30	3290	16X25	3460		
	13X20	2230								
3300	13X20	2360	13X25	2770			13X35	3400		
3900	13X25	2770								
4700	13X30	3290	13X35	3400						
5600	13X35	3400	16X25	3460						
	16X20	3140								
6800	16X25	3460								

Note: \*1. D x L: mm

\*2. Ripple Current : (mA/rms 105°C / 100KHz), ESR (Ω Max20°C / 100KHz)



## CASE SIZE & PERMISSIBLE RIPPLE CURRENT OF STANDARD PRODUCTS

CAP. (μF)	RATED VOLTAGE WV					
	50		63		100	
	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE
5.6	4X7	130				
6.8	5X7	170			5X11	125
10	5X7	210			6X11	170
15	6X7	220	5X11	170	6X11	210
	5X11	215				
22	6X7	300	6X11	220	8X11	330
	5X11	240				
27	8X7	340	6X11	240	8X11	360
33	8X7	380	6X11	270	8X15	375
39	6X11	330	8X11	385	8X15	450
47	6X11	360	8X11	420	10X12	450
56	6X11	390	8X11	500	8X20	570
68	8X11	600	8X15	610	10X15	580
			10X12	625		
82	8X11	660	8X15	670	10X19	750
			10X12	690	13X16	740
100	8X11	730	10X15	800	10X25	880
120	8X15	950	8X20	820	13X20	1050
			10X15	950		
150	10X12	980	10X19	1010	13X25	1100
			13X16	1040		
180	8X20	1190	10X19	1100	13X25	1200
			13X16	1140		
220	10X15	1370	10X25	1300	13X30	1410
					16X20	1300
270	10X19	1580	13X20	1500	13X35	1560
					16X25	1600
					18X20	1470
330	10X25	1870	13X25	1850	13X40	1700
390	13X20	1870	13X30	2050	16X32	1750
			16X20	1810	18X25	1620
470	13X20	2050	13X30	2250	16X36	1890
			16X20	1990	18X32	1780
560	13X25	2410	13X25	2450	16X40	2080
			16X25	2550	18X36	2060
680	13X30	2860	13X40	2780	18X40	2570
			18X20	2450		
820	13X35	2960	16X32	2810		
	16X20	2730	18X25	2780		
1000	16X32	3350	16X36	2840		
			18X32	3270		
1200			16X40	3340		
			18X36	3310		
1500			18X40	3420		

Note: \*1. D x L: mm

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