

- Endurance: 105°C 5000~6000hours
- Recommended Applications :AV(TV, Video, Audio), Monitor/Computer, OA/HA/Communication, Converter/Inverter, Adapter, SMPS
- Corresponding product to RoHS

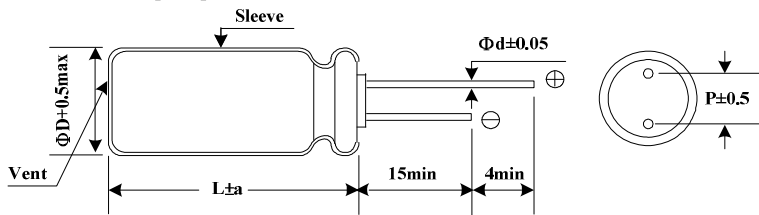
**TB**  
↑  
**SJ** Long Life



**■ SPECIFICATIONS**

Item	Characteristics																								
Category Temperature Range	-40 ~ +105°C																								
Rated Voltage Range	6.3~35VDC																								
Rated Capacitance Range	47~ 8200 µF																								
Capacitance Tolerance	± 20 % (120Hz , 20°C)																								
Leakage Current (20°C)	I=0.01CV or 3 µ A whichever is greater. (After rated voltage applied for 2 minutes) I : Max. leakage current (µ A), C : Nominal capacitance (µ F), V : Rated voltage (V)																								
Dissipation Factor(MAX) (tan δ) (120Hz, 20°C)	<table border="1"> <tr> <td>WV</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> </tr> <tr> <td>tan δ</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> </tr> </table> <p>When nominal capacitance is over 1000 µF, tan δ shall be added 0.02 to the listed value with increase of every 1000 µF.</p>	WV	6.3	10	16	25	35	tan δ	0.22	0.19	0.16	0.14	0.12												
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Low Temperature Stability Impedance Ratio (MAX)	<table border="1"> <tr> <td>WV</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> </tr> <tr> <td>Z(120Hz)</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Z-25°C / Z+20°C</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-40°C / Z+20°C</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> </tr> </table>	WV	6.3	10	16	25	35	Z(120Hz)						Z-25°C / Z+20°C	4	3	2	2	2	Z-40°C / Z+20°C	8	6	4	3	3
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Z-25°C / Z+20°C	4	3	2	2	2																				
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Endurance	<p>After applying rated voltage with rated ripple current for 5000~6000hours at 105°C, the capacitors shall meet the following requirements.</p> <table border="1"> <tr> <td>Capacitance change</td> <td>Within ± 25% of initial value(6.3 · 10V : ± 30%)</td> </tr> <tr> <td>D.F. (tan δ)</td> <td>Not more than 200% of specified value</td> </tr> <tr> <td>Leakage current</td> <td>initial specified value or less</td> </tr> </table> <table border="1"> <tr> <td>DΦ</td> <td>5~6.3Φ</td> <td>8~16Φ</td> </tr> <tr> <td>life(hours)</td> <td>5000hrs</td> <td>6000hrs</td> </tr> </table>	Capacitance change	Within ± 25% of initial value(6.3 · 10V : ± 30%)	D.F. (tan δ)	Not more than 200% of specified value	Leakage current	initial specified value or less	DΦ	5~6.3Φ	8~16Φ	life(hours)	5000hrs	6000hrs												
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DΦ	5~6.3Φ	8~16Φ																							
life(hours)	5000hrs	6000hrs																							
Shelf Life	After placed at 105°C without voltage applied for 500 hours, the capacitors shall meet the same requirement as Endurance.																								

**■ Dimensions [mm]**



ΦD	5	6.3	8	10	13	16
P	2.0	2.5	3.5	5.0	5.0	7.5
Φd	0.5	0.5	0.6	0.6	0.6	0.8
a	1.5	1.5	1.5	1.5	2.0	2.0

**■ Multiplier for Ripple Current**

Freq. (Hz)	120	1K	10K	100K
47~150 µF	0.40	0.75	0.90	1.00
220 ~ 560 µF	0.50	0.85	0.94	1.00
680 ~ 1800 µF	0.60	0.87	0.95	1.00
2200 ~ 3900 µF	0.75	0.90	0.95	1.00
4700 ~8200 µF	0.85	0.95	0.98	1.00

■ STANDARD RATINGS

Rated Voltage (SurageVoltage) (V)	Cap ( $\mu$ F)	Case size $\Phi$ DxL(mm)	Ripple current (mA/rms105°C) (100KHz)	Impedance ( $\Omega$ ,20°C) (100KHz)	Rated Voltage (SurageVoltage) (V)	Cap ( $\mu$ F)	Case size $\Phi$ DxL(mm)	Ripple current (mA/rms105°C) (100KHz)	Impedance ( $\Omega$ ,20°C) (100KHz)
6.3V ( 8 )	220	5x11	330	0.24	16V ( 20 )	1800	10x25	2250	0.023
	470	6.3x11	500	0.11		2200	13x20	2480	0.023
	820	8x12	900	0.062		2700	13x25	2900	0.020
	1200	8x15	1210	0.048		3300	13x30	3450	0.017
		10x12.5	1240	0.053			16x20	3250	0.018
	1500	8x20	1410	0.041		3900	13x35	3570	0.016
	1800	10x16	1650	0.038		4700	16x25	3630	0.017
	2200	10x20	1960	0.026	25V ( 32 )	68	5x11	330	0.24
	2700	10x25	2250	0.023		150	6.3x11	500	0.11
	3900	13x20	2480	0.023		330	8x12	900	0.062
	4700	13x25	2900	0.020		390	8x15	1210	0.048
	5600	13x30	3450	0.017		470	10x12.5	1240	0.053
	6800	13x35	3570	0.016		560	8x20	1410	0.041
16x20		3250	0.018	680		10x16	1650	0.038	
8200	16x25	3630	0.017	820		10x20	1960	0.026	
10V ( 13 )	150	5x11	330	0.24		1000	10x25	2250	0.023
	330	6.3x11	500	0.11		1500	13x20	2480	0.023
	680	8x12	900	0.062		1800	13x25	2900	0.020
	1000	8x15	1210	0.048		2200	13x30	3450	0.017
		10x12.5	1240	0.053			16x20	3250	0.018
	1500	8x20	1410	0.041	2700	13x35	3570	0.016	
		10x16	1650	0.038	3300	16x25	3630	0.017	
	1800	10x20	1960	0.026	35V ( 44 )	47	5x11	330	0.24
	2200	10x25	2250	0.023		100	6.3*11	500	0.11
	3300	13x20	2480	0.023		220	8x12	900	0.062
	3900	13x25	2900	0.020		270	8x15	1210	0.048
	4700	13x30	3450	0.017		330	10x12.5	1240	0.053
		16x20	3250	0.018		390	8x20	1410	0.041
5600	13x35	3570	0.016	470		10x16	1650	0.038	
6800	16x25	3630	0.017	560		10x20	1960	0.026	
16V ( 20 )	100	5x11	330	0.24		680	10x25	2250	0.023
	220	6.3x11	500	0.11		1000	13x20	2480	0.023
	470	8x12	900	0.062		1200	13x25	2900	0.020
	680	8x15	1210	0.048		1500	13x30	3450	0.017
		10x12.5	1240	0.053			16x20	3250	0.018
	1000	8x20	1410	0.041	1800	13x35	3570	0.016	
		10x16	1650	0.038	2200	16x25	3630	0.017	
	1500	10x20	1960	0.026					