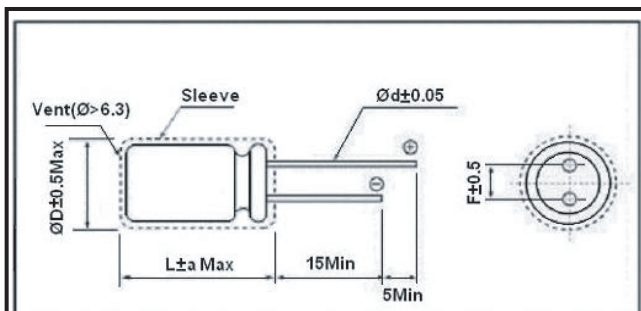


- Load Life of 6,000 Hours at 105°C
- Reduction of impedance
- Excellent Ripple Current Capability

■ SPECIFICATIONS

Operating Temperature Range	-40~+105°C																
Rated Voltage Range	6.3 ~35V																
Capacitance Range	220~6800uF																
Capacitance Tolerance	±20% (at 20°C, 120Hz)																
Leakage Current	I ≤ 0.01CV whichever is greater (at 20°C, after 2 minutes) I: Leakage Current (uA) C: Nominal Capacitance (uF) V: Rated Voltage (V)																
Dissipation Factor (At 20°C, 120Hz)	<table border="1"> <tr> <th>Rated Voltage (V)</th> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> </tr> <tr> <th>tan δ</th> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> </tr> </table>					Rated Voltage (V)	6.3	10	16	25	35	tan δ	0.22	0.19	0.16	0.14	0.12
	Rated Voltage (V)	6.3	10	16	25	35											
tan δ	0.22	0.19	0.16	0.14	0.12												
When nominal capacitance is over 1000uF, tan δ shall be added 0.02 to the listed value with every increase of 1000uF																	
Temperature Characteristics (Impedance Ratio at 120Hz)	<table border="1"> <tr> <th>W.V</th> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> </tr> <tr> <th>Z(-40°C)/Z(+20°C)</th> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table>					W.V	6.3	10	16	25	35	Z(-40°C)/Z(+20°C)	3	3	3	3	3
W.V	6.3	10	16	25	35												
Z(-40°C)/Z(+20°C)	3	3	3	3	3												
Load Life (+105°C)	<table border="1"> <tr> <th>Time</th> <td>6,000 hours after an application of DC bias voltage plus the rated ripple current. The peak voltage shall not exceed rated DC voltage</td> <th>Diam.</th> <td></td> </tr> <tr> <th>Capacitance Change</th> <td>Within ±25% of the initial value(6.3-10V:±30%)</td> <th rowspan="3">∅≥8</th> <th rowspan="3">6000Hrs</th> </tr> <tr> <th>Dissipation Factor</th> <td>200% of the initial specified value or less</td> </tr> <tr> <th>Leakage Current</th> <td>The specified value or less</td> </tr> </table>				Time	6,000 hours after an application of DC bias voltage plus the rated ripple current. The peak voltage shall not exceed rated DC voltage	Diam.		Capacitance Change	Within ±25% of the initial value(6.3-10V:±30%)	∅≥8	6000Hrs	Dissipation Factor	200% of the initial specified value or less	Leakage Current	The specified value or less	
Time	6,000 hours after an application of DC bias voltage plus the rated ripple current. The peak voltage shall not exceed rated DC voltage	Diam.															
Capacitance Change	Within ±25% of the initial value(6.3-10V:±30%)	∅≥8	6000Hrs														
Dissipation Factor	200% of the initial specified value or less																
Leakage Current	The specified value or less																
Shelf Life (+105°C)	After leaving the capacitor under on load at 105°C for 500 hours, they meet the specified value for load life characteristics listed above.																

■ DIMENSION



∅D	8	10	12.5
F	3.5	5.0	5.0
∅d	0.5	0.6	L ≤ 25 ∅d = 0.6
	L = 20; 0.6		L ≥ 30 ∅d = 0.8
a	1.5		2.0

■ MULTIPLIER FOR RIPPLE CURRENT

Frequency Coefficient

Cap (uF) \ Freq(Hz)	120	1K	10K	100K
220~560	0.50	0.85	0.94	1.0
680~1800	0.60	0.87	0.95	1.0
2200~3900	0.75	0.90	0.95	1.0
4700~6800	0.85	0.95	0.95	1.0

■ Standard Rating

∅DxL (mm)	6.3				∅DxL (mm)	10			
	Cap uF	Impedance (Ω) 100 KHz		Ripple mArms		Cap uF	Impedance (Ω) 100 KHz		Ripple mArms
		20°C	-10°C				20°C	-10°C	
8x12	820	0.062	0.19	900	8x12	680	0.062	0.19	900
8x16	1200	0.048	0.15	1210	8x16	1000	0.048	0.15	1210
10x13	1200	0.045	0.14	1240	10x13	1000	0.045	0.14	1240
8x20	1500	0.033	0.11	1410	8x20	1500	0.033	0.11	1410
10x16	1800	0.032	0.10	1650	10x16	1500	0.032	0.10	1650
10x20	2200	0.020	0.060	1960	10x20	1800	0.020	0.060	1960
10x25	2700	0.018	0.054	2250	10x25	2200	0.018	0.054	2250
12.5x20	3900	0.017	0.043	2480	12.5x20	3300	0.017	0.043	2480
12.5x25	4700	0.015	0.038	2900	12.5x25	3900	0.015	0.038	2900
12.5x30	5600	0.013	0.033	3450	12.5x30	4700	0.013	0.033	3450
12.5x35	6800	0.012	0.031	3570	12.5x35	5600	0.012	0.031	3570

Ripple Current: mA(rms) at 100KHz, 105°C

∅DxL (mm)	16				∅DxL (mm)	25			
	Cap uF	Impedance (Ω) 100 KHz		Ripple mArms		Cap uF	Impedance (Ω) 100 KHz		Ripple mArms
		20°C	-10°C				20°C	-10°C	
8x12	470	0.062	0.19	900	8x12	330	0.062	0.19	900
8x16	680	0.048	0.15	1210	8x16	390	0.048	0.15	1210
10x13	680	0.045	0.14	1240	10x13	470	0.045	0.14	1240
8x20	1000	0.033	0.11	1410	8x20	560	0.033	0.11	1410
10x16	1000	0.032	0.10	1650	10x16	680	0.032	0.10	1650
10x20	1500	0.020	0.060	1960	10x20	820	0.020	0.060	1960
10x25	1800	0.018	0.054	2250	10x25	1000	0.018	0.054	2250
12.5x20	2200	0.017	0.043	2480	12.5x20	1500	0.017	0.043	2480
12.5x25	2700	0.015	0.038	2900	12.5x25	1800	0.015	0.038	2900
12.5x30	3300	0.013	0.033	3450	12.5x30	2200	0.013	0.033	3450
12.5x35	3900	0.012	0.031	3570	12.5x35	2700	0.012	0.031	3570

Ripple Current: mA(rms) at 100KHz, 105°C

∅DxL (mm)	35			
	Cap uF	Impedance (Ω) 100 KHz		Ripple mArms
		20°C	-10°C	
8x12	220	0.062	0.19	900
8x16	270	0.048	0.15	1210
10x13	330	0.045	0.14	1240
8x20	390	0.033	0.11	1410
10x16	470	0.032	0.10	1650
10x20	560	0.020	0.060	1960
10x25	680	0.018	0.054	2250
12.5x20	1000	0.017	0.043	2480
12.5x25	1200	0.015	0.038	2900
12.5x30	1500	0.013	0.033	3450
12.5x35	1800	0.012	0.031	3570

Ripple Current: mA(rms) at 100KHz, 105°C