

- Load life of 2000~5000 hours at 105°C
- Lowest impedance
- High ripple current

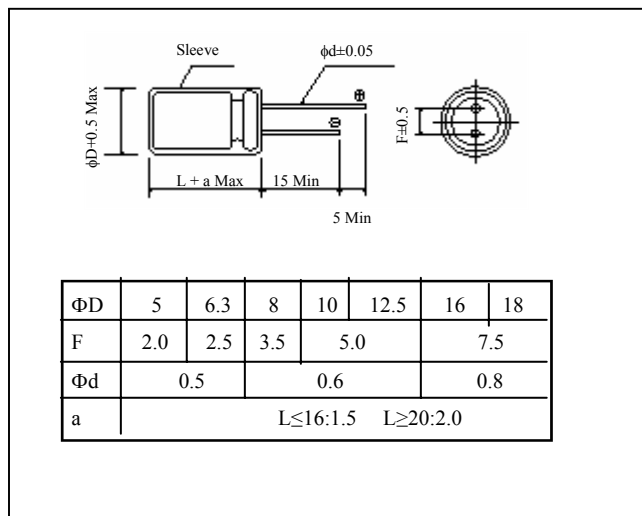


## ■ SPECIFICATIONS

Item	Characteristics																								
Operating Temperature Range (°C)	-40~+105																								
Rated Voltage Range (V)	6.3~50																								
Capacitance Tolerance (20°C, 120Hz)	±20%																								
Leakage Current (μ A)(20°C)	0.01CV or 3 μ A whichever is greater (at 20°C, after 2 minutes) C: Nominal Capacitance (μ F) V:Rated Voltage (V)																								
Dissipation Factor (20°C, 120Hz)	<table border="1"> <tr> <td>Wv (v)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>tan δ</td> <td>22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> </tr> </table> <p>When nominal capacitance is over 1000 μ F tan δ shall be added 0.02 to the listed value with increase of every 1000 μ F</p>	Wv (v)	6.3	10	16	25	35	50	tan δ	22	0.19	0.16	0.14	0.12	0.10										
Wv (v)	6.3	10	16	25	35	50																			
tan δ	22	0.19	0.16	0.14	0.12	0.10																			
Characteristics of Low Temperature (120Hz)	<table border="1"> <tr> <td colspan="2">Rated Voltage</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>Impedance</td> <td>Z-25°C/Z+20°C</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>ZT/Z20(Max)</td> <td>Z-40°C/Z+20°C</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table>	Rated Voltage		6.3	10	16	25	35	50	Impedance	Z-25°C/Z+20°C	2	2	2	2	2	2	ZT/Z20(Max)	Z-40°C/Z+20°C	3	3	3	3	3	3
Rated Voltage		6.3	10	16	25	35	50																		
Impedance	Z-25°C/Z+20°C	2	2	2	2	2	2																		
ZT/Z20(Max)	Z-40°C/Z+20°C	3	3	3	3	3	3																		
Load Life (+105°C)	<p>After life test with max ripple current at conditions stated in the table below, the capacitors shall meet the following requirements.</p> <table border="1"> <tr> <td>Leakage Current</td> <td>Not more than the specified value</td> </tr> <tr> <td>Capacitance change</td> <td>Within ± 25% of the initial value</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the specified</td> </tr> </table> <table border="1"> <tr> <td>Case Dia</td> <td>Test time (hrs)</td> </tr> <tr> <td>ΦD≤6.3</td> <td>2000</td> </tr> <tr> <td>ΦD=8</td> <td>3000</td> </tr> <tr> <td>ΦD=10</td> <td>4000</td> </tr> <tr> <td>ΦD≥ 12.5</td> <td>5000</td> </tr> </table>	Leakage Current	Not more than the specified value	Capacitance change	Within ± 25% of the initial value	Dissipation Factor	Not more than 200% of the specified	Case Dia	Test time (hrs)	ΦD≤6.3	2000	ΦD=8	3000	ΦD=10	4000	ΦD≥ 12.5	5000								
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ΦD≤6.3	2000																								
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ΦD=10	4000																								
ΦD≥ 12.5	5000																								
Shelf Life (+105°C)	1000 hours. No voltage applied. * After test:(V) to be applied for 30 minutes, 24 to 48 hours before measurement.																								

## ■ DIMENSIONS

mm



## ■ MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient					
Freq(Hz)	50	120	1K	10K	100K
Cap( μ F)					
22~33	0.45	0.55	0.75	0.90	1.0
39~330	0.60	0.70	0.85	0.95	1.0
390~1000	0.65	0.75	0.90	0.98	1.0
1200~6800	0.75	0.80	0.95	1.00	1.0

Temperature coefficient			
Temperature (°C)	+70	+80	+105
Rated Voltage(V)			
6.3~50	2.0	1.7	1.0

## STANDARD SIZE

WV (v) ΦDxL(mm)	6.3				10				16			
	Nominal Capacitance μ F	Max Impedance		Ripple Current (mArms)	Nominal Capacitance μ F	Max Impedance		Ripple Current (mArms)	Nominal Capacitance μ F	Max Impedance		Ripple Current (mArms)
		20°C	-10°C			20°C	-10°C			20°C	-10°C	
		100KHz (Ω)	100KHz (Ω)			100KHz (Ω)	100KHz (Ω)			100KHz (Ω)	100KHz (Ω)	
5x11.5	150	0.3	1.0	250	100	0.30	1.0	250	56	0.30	1.0	250
6.3x11.5	330	0.13	0.41	405	220	0.13	0.41	405	120	0.13	0.41	405
8x12	560	0.072	0.22	760	470	0.072	0.22	760	330	0.072	0.22	760
8x16	820	0.056	0.17	995	680	0.056	0.17	995	470	0.056	0.17	995
8x20	1200	0.041	0.13	1250	1000	0.041	0.13	1250	680	0.041	0.13	1250
10x12.5	1000	0.053	0.16	1030	680	0.053	0.16	1030	470	0.053	0.16	1030
10x16	1200	0.038	0.12	1430	1000	0.038	0.12	1430	680	0.038	0.12	1430
10x20	1500	0.023	0.069	1820	1200	0.023	0.069	1820	1000	0.023	0.069	1820
10x25	2200	0.022	0.066	2150	1500	0.022	0.066	2150	1200	0.022	0.066	2150
12.5x20	3300	0.021	0.053	2360	2200	0.021	0.053	2360	1500	0.021	0.053	2360
12.5x25	3900	0.018	0.045	2770	3300	0.018	0.045	2770	2200	0.018	0.045	2770
12.5x30	4700	0.016	0.041	3290	3900	0.016	0.041	3290	2700	0.016	0.041	3290
12.5x35	5600	0.015	0.039	3400	4700	0.015	0.039	3400	3300	0.015	0.039	3400
16x20	5600	0.018	0.045	3140	3900	0.018	0.045	3140	2700	0.018	0.045	3140
16x25	6800	0.016	0.043	3460	5600	0.016	0.043	3460	3900	0.016	0.043	3460

WV (v) ΦDxL(mm)	25				35				50			
	Nominal Capacitance μ F	Max Impedance		Ripple Current (mArms)	Nominal Capacitance μ F	Max Impedance		Ripple Current (mArms)	Nominal Capacitance μ F	Max Impedance		Ripple Current (mArms)
		20°C	-10°C			20°C	-10°C			20°C	-10°C	
		100KHz (Ω)	100KHz (Ω)			100KHz (Ω)	100KHz (Ω)			100KHz (Ω)	100KHz (Ω)	
5x11.5	47	0.3	1.0	250	33	0.30	1.0	250	22	0.34	1.18	238
6.3x11.5	100	0.13	0.41	405	56	0.13	0.41	405	56	0.14	0.50	385
8x12	220	0.072	0.22	760	150	0.072	0.22	760	100	0.074	0.22	724
8x16	330	0.056	0.17	995	220	0.056	0.17	995	120	0.061	0.18	950
8x20	470	0.041	0.13	1250	270	0.041	0.13	1250	180	0.046	0.14	1190
10x12.5	680	0.053	0.16	1030	220	0.053	0.16	1030	150	0.061	0.18	979
10x16	820	0.038	0.12	1430	330	0.038	0.12	1430	220	0.042	0.12	1370
10x20	1000	0.023	0.069	1820	470	0.023	0.069	1820	270	0.030	0.090	1580
10x25	1500	0.022	0.066	2150	560	0.022	0.066	2150	330	0.028	0.085	1870
12.5x20	1800	0.021	0.053	2360	680	0.021	0.053	2360	470	0.027	0.068	2050
12.5x25	2200	0.018	0.045	2770	1000	0.018	0.045	2770	560	0.023	0.059	2410
12.5x30	1800	0.016	0.041	3290	1200	0.016	0.041	3290	680	0.021	0.052	2860
12.5x35	2200	0.015	0.033	3400	1500	0.015	0.039	3400	820	0.019	0.051	2960
16x20	1800	0.018	0.045	3140	1200	0.018	0.045	3140	820	0.023	0.059	2730
16x25	2700	0.016	0.043	3460	1800	0.016	0.043	3460	1000	0.021	0.056	3010

Ripple Current: 105°C, 100KHz