

- Endurance: 105°C · 5000hours
- Recommended Applications : High ripple current for Electronic Ballast , Power Supply...etc
- Corresponding product to RoHS

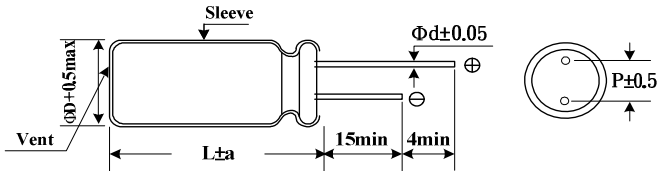
SG
↑
SQ Long Life



■ SPECIFICATIONS

Item	Characteristics																																	
Category Temperature Range	-40~+105°C	-25~+105°C																																
Rated Voltage Range	160 ~ 450VDC	500VDC																																
Rated Capacitance Range	3.3 ~ 330 µF	4.7~ 150 µF																																
Capacitance Tolerance	± 20 % (120Hz , 20°C)	± 20 % (120Hz , 20°C)																																
Leakage Current (20°C)	I=0.06CV + 10(µ A) (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>160</td> <td>200</td> <td>250</td> <td>350</td> <td>400</td> <td>420~450</td> <td>500</td> </tr> <tr> <td>tan δ</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.20</td> <td>0.24</td> <td>0.24</td> <td>0.24</td> </tr> </table>		WV	160	200	250	350	400	420~450	500	tan δ	0.15	0.15	0.15	0.20	0.24	0.24	0.24																
WV	160	200	250	350	400	420~450	500																											
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Low Temperature Stability Impedance Ratio (MAX)	<table border="1"> <tr> <td rowspan="3">Z (120Hz)</td> <td colspan="8">WV</td> </tr> <tr> <td>160</td> <td>200</td> <td>250</td> <td>350</td> <td>400</td> <td>420~450</td> <td>500</td> </tr> <tr> <td>Z-25°C / Z+20°C</td> <td>3</td> <td>3</td> <td>3</td> <td>5</td> <td>5</td> <td>6</td> <td>6</td> </tr> <tr> <td>Z-40°C / Z+20°C</td> <td>6</td> <td>6</td> <td>6</td> <td>6</td> <td>6</td> <td>8</td> <td>—</td> </tr> </table>		Z (120Hz)	WV								160	200	250	350	400	420~450	500	Z-25°C / Z+20°C	3	3	3	5	5	6	6	Z-40°C / Z+20°C	6	6	6	6	6	8	—
Z (120Hz)	WV																																	
	160	200		250	350	400	420~450	500																										
	Z-25°C / Z+20°C	3	3	3	5	5	6	6																										
Z-40°C / Z+20°C	6	6	6	6	6	8	—																											
Endurance	After applying rated voltage with rated ripple current for 5000 hours at 105°C , the capacitors shall meet the following requirements. <table border="1"> <tr> <td>Capacitance change</td> <td>Within ± 20% of initial value</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>		Capacitance change	Within ± 20% of initial value	D.F. (tan δ)	Not more than 200% of specified value	Leakage current	initial specified value or less																										
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Shelf Life	After placed at 105°C without voltage applied for 1000 hours,the capacitors shall meet the same requirement as Endurance.																																	

■ Dimensions [mm]



ΦD	8.0	10	12.5	13	16	18	22
P	3.5	5.0	5.0	5.0	7.5	7.5	10.0
Φd	0.6	0.6	0.6	0.6	0.8	0.8	0.8
a	1.5(2.0)	1.5(2.0)	2.0(2.5)	2.0	2.0	2.0	2.0

Notes : () : L ≥ 30mm

■ Multiplier for Ripple Current

Freq. (Hz)	50,60	120	300	1K	10K~100K
160~450V	0.80	1.00	1.20	1.40	1.60
500V	0.75	1.00	1.20	1.35	1.50

■STANDARD RATINGS

Rated Voltage (SurageVoltage) (V)	Cap (μF)	Case size ΦDxL(mm)	tan δ	Ripple current (mA/rms105°C) (120Hz)	Rated Voltage (SurageVoltage) (V)	Cap (μF)	Case size ΦDxL(mm)	tan δ	Ripple current (mA/rms105°C) (120Hz)		
160 (200)	22	10x20	0.15	160	350 (400)	68	16x32	0.2	400		
	33	10x20	0.15	210		82	18x25	0.2	380		
	47	13x20	0.15	260		100	12.5x50	0.2	400		
	68	13x25	0.15	360		100	12.5x55	0.2	460		
	200 (250)	68	16x20	0.15	430	400 (450)	100	18x32	0.2	530	
		100	16x25	0.15	475		4.7	※10x16	0.24	60	
		150	18x20	0.15	465		6.8	※10x16	0.24	72	
		220	16x32	0.15	650		10	※10x16	0.24	85	
		330	18x25	0.15	625		10	10x20	0.24	100	
		250 (300)	220	16x32	0.15		750	15	8x35	0.24	110
330			18x25	0.15	725		22	8x40	0.24	140	
330			18x32	0.15	960			13x20	0.24	145	
			18x32	0.15	960			13x25	0.24	170	
350 (400)			10	※10x16	0.15			80	16x20	0.24	200
	15		※10x16	0.15	100	27	8x45	0.24	165		
	22		10x20	0.15	160		10x35	0.24	165		
	33		※10x20	0.15	160	33	8x50	0.24	190		
	47		13x20	0.15	210		10x40	0.24	190		
			13x20	0.15	260		16x25	0.24	230		
	420 (470)	68	13x25	0.15	360	47	18x20	0.24	250		
		68	16x20	0.15	430		10x45	0.24	220		
			16x20	0.15	475		10x50	0.24	255		
		100	18x20	0.15	465		56	12.5x40	0.24	255	
150		18x25	0.15	650	16x25	0.24		255			
220		18x25	0.15	650	16x32	0.24		300			
		18x32	0.15	780	18x25	0.24		325			
450 (500)		10	※10x16	0.15	85	450 (500)	150	22x40	0.24	650	
		10	10x20	0.15	100		15	8x35	0.24	105	
			8x30	0.15	130		22	8x40	0.24	135	
	22	※10x25	0.15	145	27		8x45	0.24	155		
		13x20	0.15	160			10x35	0.24	155		
	27	8x32	0.15	150	33		8x50	0.24	185		
	33	8x35	0.15	170			10x40	0.24	185		
		33	13x20	0.15	210		39	10x45	0.24	215	
	8x42		0.15	200	12.5x35			0.24	215		
	480 (540)	47	8x45	0.15	220		47	10x50	0.24	245	
47		13x25	0.15	270	12.5x40	0.24		245			
		16x20	0.15	275	56	12.5x45		0.24	290		
56		10x42	0.15	300	68	12.5x50		0.24	335		
540 (600)		68	10x45	0.15	330	540 (600)	82	12.5x55	0.24	385	
		68	16x25	0.15	380		3.3	10x20	0.24	60	
			18x20	0.15	375		4.7	13x20	0.24	80	
		82	10x50	0.15	390		6.8	※10x20	0.24	90	
		100	12.5x42	0.15	440		10	13x20	0.24	110	
			16x32	0.15	520			13x25	0.24	110	
	100	18x25	0.15	500	12		8x35	0.24	110		
		120	12.5x45	0.15	490		15	8x40	0.24	130	
	600 (660)	150	12.5x50	0.15	560		600 (660)	22	8x45	0.24	165
		220	18x32	0.15	650				10x35	0.24	165
18x40			0.15	820	13x20	0.24			145		
220		18x40	0.15	820	16x25	0.24			190		
		10	10x20	0.20	100	18x20		0.24	200		
660 (720)		15	8x35	0.20	120	660 (720)		27	8x52	0.24	195
		22	8x40	0.20	150			660 (720)	660 (720)		
			13x20	0.20	160						
		27	8x45	0.20	170						
		33	8x50	0.20	200						
	13x25		0.20	230							
	39	16x20	0.20	250							
		10x45	0.20	235							
	47	10x50	0.20	270							
		16x25	0.20	300							
56	12.5x40	0.20	300								
68	12.5x45	0.20	350								

※Down Size : 3000Hrs

■ STANDARD RATINGS

Rated Voltage (SurageVoltage) (V)	Cap (μ F)	Case size Φ D \times L(mm)	tan δ	Ripple current (mA/rms105°C) (120Hz)	Rated Voltage (SurageVoltage) (V)	Cap (μ F)	Case size Φ D \times L(mm)	tan δ	Ripple current (mA/rms105°C) (120Hz)	
450 (500)	27	10x40	0.24	195	450 (500)	100	22x40	0.24	580	
	33	10x45	10x45	0.24	230	500 (550)	4.7	10x20	0.24	70
			12.5x35	0.24	230		6.8	13x20	0.24	100
			16x25	0.24	235		10	12.5x25	0.24	130
			16x32	0.24	275		22	16x25	0.24	225
			18x25	0.24	280			18x20	0.24	220
	39	10x50	0.24	265	33		16x32	0.24	305	
		12.5x40	0.24	265			18x25	0.24	295	
	47	10x52	0.24	295	47		16x36	0.24	430	
		12.5x45	0.24	310			18x32	0.24	435	
		16x26	0.24	270	68		18x32	0.24	530	
		18x32	0.24	340			18x36	0.24	555	
	56	12.5x50	0.24	355	82		18x40	0.24	640	
		12.5x55	0.24	410			22x35	0.24	675	
	68	18x25	0.24	335	100		22x35	0.24	745	
		18x32	0.24	395	120		22x40	0.24	865	
18x40		0.24	460	150	22x45		0.24	1020		

※Down Size : 3000Hrs