

AR

High Temperature · Low impedance · Long Life Series

- Endurance: 125°C 3000~5000hrs
- Recommended Applications : Applicable for Electronic Ballast,Lighting Ballast
- Corresponding product to RoHS

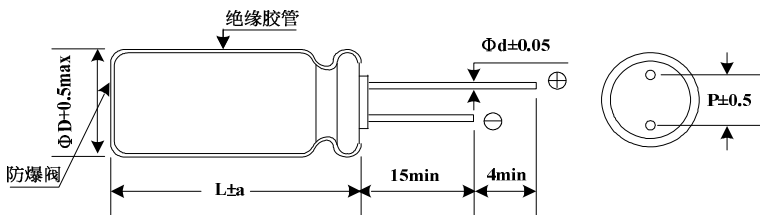
AR
↑
AK Downsized



■ SPECIFICATIONS

Item	Characteristics																		
Category Temperature Range	-40 ~ +125°C																		
Rated Voltage Range	25~63VDC																		
Rated Capacitance Range	470~ 6800 µF																		
Capacitance Tolerance	± 20 % (120Hz , 20°C)																		
Leakage Current (20°C)	I=0.03CV or 4(µA)whichever is greater. (After rated voltage applied for 1 minutes) I : Max. leakage current (µA), C : Nominal capacitance (µF), V : Rated voltage (V)																		
Dissipation Factor(MAX) (tan δ) (120Hz ,20°C)	<table border="1"> <tr> <td>WV</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> </tr> <tr> <td>tan δ</td> <td>0.14</td> <td>0.12</td> <td>0.14</td> <td>0.14</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	25	35	50	63	tan δ	0.14	0.12	0.14	0.14								
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Low Temperature Stability Impedance Ratio (MAX)	<table border="1"> <tr> <td>Z(120Hz) \ WV</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> </tr> <tr> <td>Z-25°C / Z+20°C</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-40°C / Z+20°C</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> </tr> </table>	Z(120Hz) \ WV	25	35	50	63	Z-25°C / Z+20°C	2	2	2	2	Z-40°C / Z+20°C	4	4	4	4			
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Z-25°C / Z+20°C	2	2	2	2															
Z-40°C / Z+20°C	4	4	4	4															
Endurance	<p>After applying rated voltage with rated ripple current for 3000~5000 hours at 125°C, the capacitors shall meet the following requirements.</p> <table border="1"> <tr> <td>Rated Voltage Range</td> <td colspan="2">25~63VDC</td> </tr> <tr> <td>Capacitance change</td> <td colspan="2">Within ±30% of initial value</td> </tr> <tr> <td>D.F. (tan δ)</td> <td colspan="2">Not more than300% of specified value</td> </tr> <tr> <td>Leakage current</td> <td colspan="2">initial specified value or less</td> </tr> <tr> <td>L(height)</td> <td>L ≤ 20mm</td> <td>L ≥ 25mm</td> </tr> <tr> <td>Life</td> <td>3000Hrs</td> <td>5000Hrs</td> </tr> </table>	Rated Voltage Range	25~63VDC		Capacitance change	Within ±30% of initial value		D.F. (tan δ)	Not more than300% of specified value		Leakage current	initial specified value or less		L(height)	L ≤ 20mm	L ≥ 25mm	Life	3000Hrs	5000Hrs
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Shelf Life	<p>After placed at 125°C without voltage applied for 1000 hours,the capacitors shall meet the same requirement as Endurance.</p> <table border="1"> <tr> <td>Rated Voltage Range</td> <td colspan="2">25~63VDC</td> </tr> <tr> <td>Capacitance change</td> <td colspan="2">Within ±30% of initial value</td> </tr> <tr> <td>D.F. (tan δ)</td> <td colspan="2">Not more than300% of specified value</td> </tr> <tr> <td>Leakage current</td> <td colspan="2">initial specified value or less</td> </tr> </table>	Rated Voltage Range	25~63VDC		Capacitance change	Within ±30% of initial value		D.F. (tan δ)	Not more than300% of specified value		Leakage current	initial specified value or less							
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■ Dimensions [mm]



ΦD	13	16	18
P	5.0	7.5	7.5
Φd	0.6	0.8	0.8
a	2.0	2.0	2.0

■ Multiplier for Ripple Current

Freq. (Hz)		120	1K	10K	100K
25~63WV	CAP:470~560 µF	0.50	0.85	0.94	1.00
	CAP:620~1800 µF	0.60	0.87	0.95	1.00
	CAP:2200~3900 µF	0.75	0.90	0.95	1.00
	CAP:4700~6800 µF	0.85	0.95	0.98	1.00

■ STANDARD RATINGS

Rated Voltage (SurageVoltage) (V)	Cap (μ F)	Case size Φ D \times L(mm)	Ripple current (mA/rms125°C) (100KHz)	Impedance (Ω ,20°C) (100KHz)	Rated Voltage (SurageVoltage) (V)	Cap (μ F)	Case size Φ D \times L(mm)	Ripple current (mA/rms125°C) (100KHz)	Impedance (Ω ,20°C) (100KHz)
25(32)	1200	13x20	1820	0.046	35(44)	3300	18x36	3840	0.020
	1800	13x25	2280	0.040		4700	18x40	4230	0.017
		16x20	2280	0.036	50(63)	470	13x20	1500	0.095
	2200	13x30	2560	0.031		680	13x25	1900	0.078
		13x35	2970	0.027			16x20	2040	0.073
	2700	16x25	2860	0.028		820	13x30	2150	0.071
			18x20	2490		0.036	1000	13x35	2510
	3300	13x40	3340	0.023		16x25		2620	0.061
		16x30	3160	0.025		18x20		2240	0.069
	3900	16x36	3590	0.022		1200	13x40	2870	0.058
			18x25	3010			0.026	16x30	2940
	4700	18x30	3390	0.022		18x25	2750	0.059	
			5600	16x40	3970	0.018	1500	16x36	3300
18x36	3840	0.020		1800	18x30	3140	0.056		
6800	18x40	4230	0.017	2200	16x40	3720	0.050		
		18x36	3510		0.052	2700	18x40	3940	0.048
35(44)	680	13x20	1820	0.046	63(79)	470	16x20	1790	0.105
	1000	13x25	2280	0.040		680	16x25	2030	0.085
		13x30	2560	0.031			18x20	1910	0.095
	1200	16x20	2280	0.036		820	16x30	2330	0.073
			13x35	2970		0.027	1000	16x36	2580
	1500	18x20	2490	0.036		18x25		2280	0.069
			13x40	3340		0.023	1200	16x40	2900
	1800	16x25	2860	0.028		18x30		2580	0.061
			16x30	3160		0.025	1500	18x36	2890
	2200	18x25	3010	0.026		1800	18x40	3210	0.050
			16x36	3590	0.022				
	2700	18x30	3390	0.022					
			16x40	3970	0.018				
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